

## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.27 @ 21:20:47

End Date: 2004.05.28 @ 04:21:16

Job Ticket #: 19314                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas Company

Marshall A#26

36-11s-18w Ellis Ks

DST # 1

LKC A-D

2004.05.27



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

ATTN: Jay G Schw eikert

Job Ticket: 19314

**DST#: 1**

Test Start: 2004.05.27 @ 21:20:47

## GENERAL INFORMATION:

Formation: **LKC A-D**

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

Time Tool Opened: 23:15:46

Time Test Ended: 04:21:16

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3337.00 ft (KB) To 3412.00 ft (KB) (TVD)**

Total Depth: **3412.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2124.00 ft (KB)**

**2119.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668**

**Inside**

Press@RunDepth: **266.56 psig @ 3342.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.05.27**

End Date:

**2004.05.28**

Last Calib.: **2004.05.28**

Start Time: **21:20:47**

End Time:

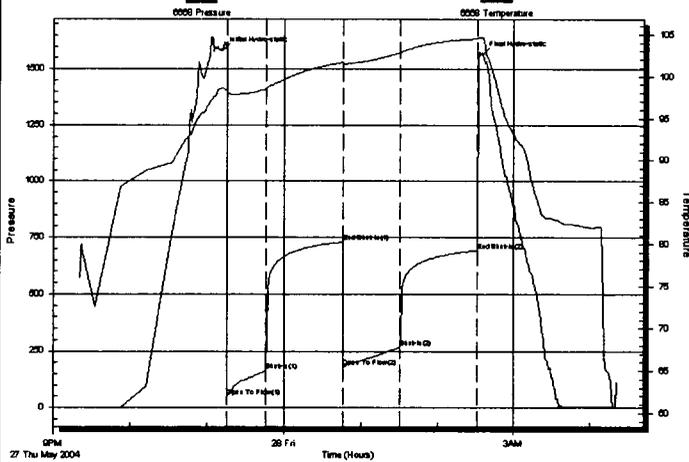
**04:21:16**

Time On Btm: **2004.05.27 @ 23:11:46**

Time Off Btm: **2004.05.28 @ 02:35:16**

**TEST COMMENT:** FFP-w k to a gd bl 1"to 7"bl  
FFP-w k to a fr bl 1/4"to 4" bl  
Times 30-60-45-60  
no bl on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.99	98.57	Initial Hydro-static
4	48.38	98.05	Open To Flow (1)
35	163.36	98.53	Shut-in(1)
94	729.25	101.65	End Shut-in(1)
95	179.38	101.43	Open To Flow (2)
139	266.56	102.83	Shut-in(2)
200	692.70	104.51	End Shut-in(2)
204	1565.06	104.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 20% mud 80% water w/show oil	0.89
350.00	water RW .29 @ 68F	4.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19314

**DST#: 1**

ATTN: Jay G Schweikert

Test Start: 2004.05.27 @ 21:20:47

### Tool Information

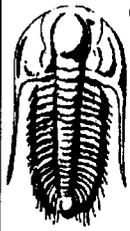
Drill Pipe:	Length: 3156.00 ft	Diameter: 3.80 inches	Volume: 44.27 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 45.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3337.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.02 ft			
Tool Length:	96.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3317.00	
Shut In Tool	5.00			3322.00	
Hydraulic tool	5.00			3327.00	
Packer	5.00			3332.00	21.00 Bottom Of Top Packer
Packer	5.00			3337.00	
Stubb	1.00			3338.00	
Perforations	4.00			3342.00	
Recorder	0.01	6668	Inside	3342.01	
Perforations	4.00			3346.01	
Change Over Sub	1.00			3347.01	
Recorder	0.01	11085	Outside	3347.02	
Blank Spacing	61.00			3408.02	
Change Over Sub	1.00			3409.02	
Bullnose	3.00			3412.02	75.02 Bottom Packers & Anchor

**Total Tool Length: 96.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19314

**DST#: 1**

ATTN: Jay G Schweikert

Test Start: 2004.05.27 @ 21:20:47

## 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:

25000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.69 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW 20% mud 80% water w/show oil	0.885
350.00	water RW .29 @ 68F	4.910

Total Length: 530.00 ft

Total Volume: 5.795 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

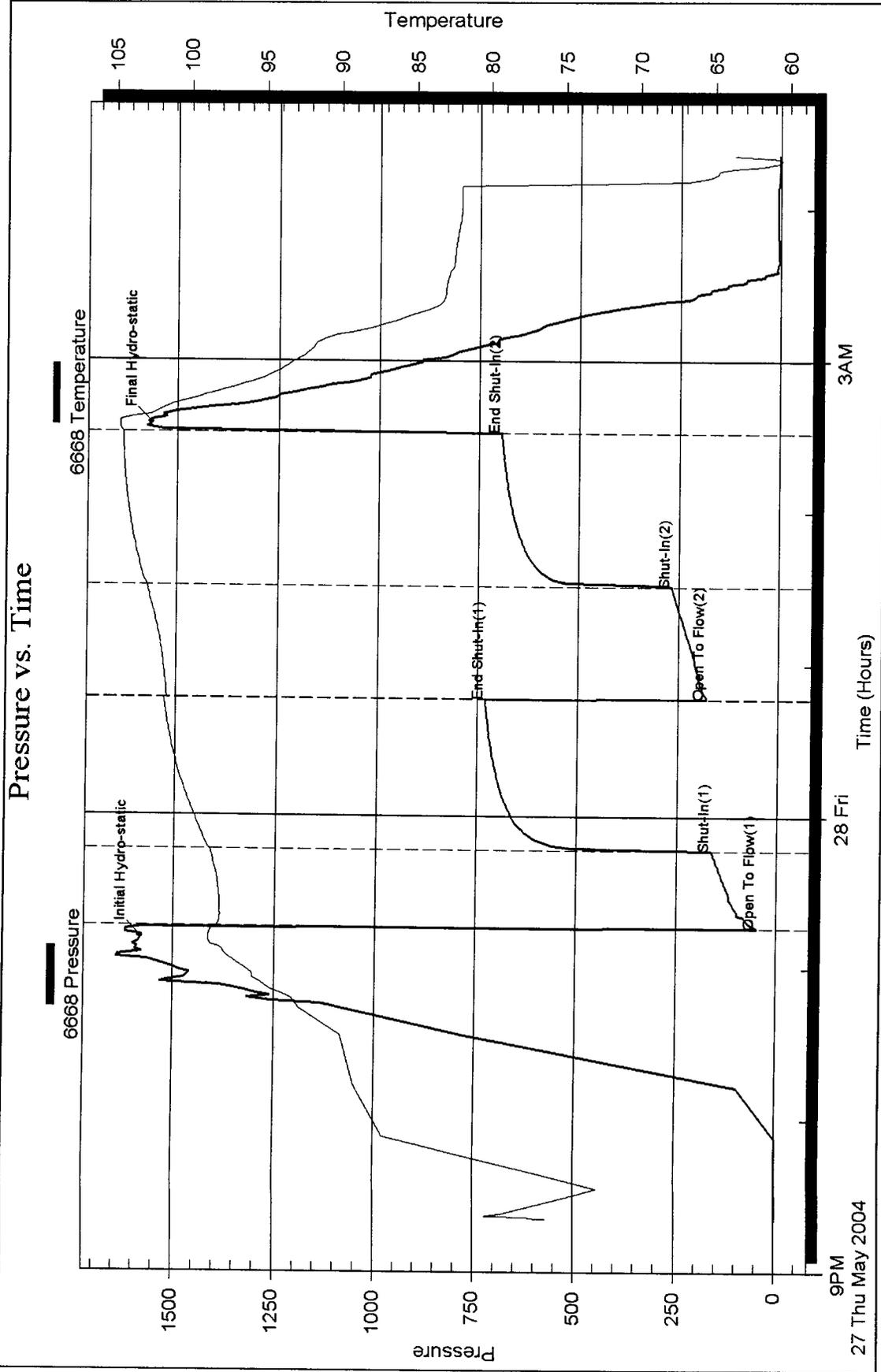
Serial #: 6668

Inside Lario Oil & Gas Company

36-11s-18w Ellis Ks

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.28 @ 15:25:06

End Date: 2004.05.28 @ 21:00:05

Job Ticket #: 19315                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas Company

Marshall A#26

36-11s-18w Ellis Ks

DST # 2

LKC H-J

2004.05.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19315

**DST#: 2**

ATTN: Jay G Schweikert

Test Start: 2004.05.28 @ 15:25:06

## GENERAL INFORMATION:

Formation: **LKC H-J**

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

Time Tool Opened: 17:10:05

Time Test Ended: 21:00:05

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3467.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Total Depth: **3540.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2124.00 ft (KB)**

**2119.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6668** Inside

Press@RunDepth: **35.78 psig @ 3470.01 ft (KB)**

Start Date: **2004.05.28**

End Date:

**2004.05.28**

Capacity: **7000.00 psig**

Last Calib.: **2004.05.28**

Start Time: **15:25:06**

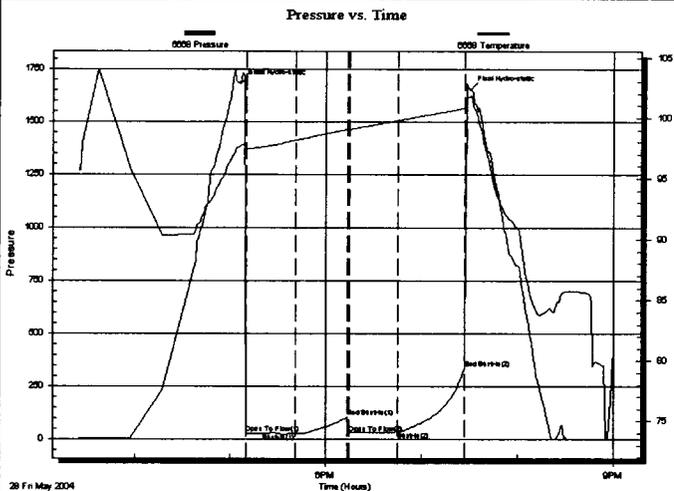
End Time:

**21:00:05**

Time On Btm: **2004.05.28 @ 17:06:35**

Time Off Btm: **2004.05.28 @ 19:30:35**

**TEST COMMENT:** FFP-wk surface bl died in 25 min  
FFP-no bl first 6 min, then wk surface bl thru-out  
Times 30-30-30-45



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.86	97.68	Initial Hydro-static
4	29.28	97.58	Open To Flow (1)
35	27.32	98.14	Shut-In(1)
67	105.23	99.05	End Shut-In(1)
68	29.24	99.04	Open To Flow (2)
99	35.78	99.78	Shut-In(2)
141	336.33	100.82	End Shut-In(2)
144	1652.56	101.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	MGO 25%gas 45%oil 30%mud	0.20
0.00	140 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19315

**DST#:2**

ATTN: Jay G Schweikert

Test Start: 2004.05.28 @ 15:25:06

### Tool Information

Drill Pipe:	Length: 3280.00 ft	Diameter: 3.80 inches	Volume: 46.01 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 46.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3467.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.02 ft			
Tool Length:	94.02 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			3447.00	
Shut In Tool	5.00			3452.00	
Hydraulic tool	5.00			3457.00	
Packer	5.00			3462.00	21.00 Bottom Of Top Packer
Packer	5.00			3467.00	
Stubb	1.00			3468.00	
Perforations	2.00			3470.00	
Recorder	0.01	6668	Inside	3470.01	
Perforations	4.00			3474.01	
Change Over Sub	1.00			3475.01	
Recorder	0.01	11085	Outside	3475.02	
Blank Spacing	61.00			3536.02	
Change Over Sub	1.00			3537.02	
Bullnose	3.00			3540.02	73.02 Bottom Packers & Anchor

**Total Tool Length: 94.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19315

**DST#: 2**

ATTN: Jay G Schw eikert

Test Start: 2004.05.28 @ 15:25:06

## 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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.69 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
40.00	MGO 25%gas 45%oil 30%mud	0.197
0.00	140 GIP	0.000

Total Length: 40.00 ft

Total Volume: 0.197 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

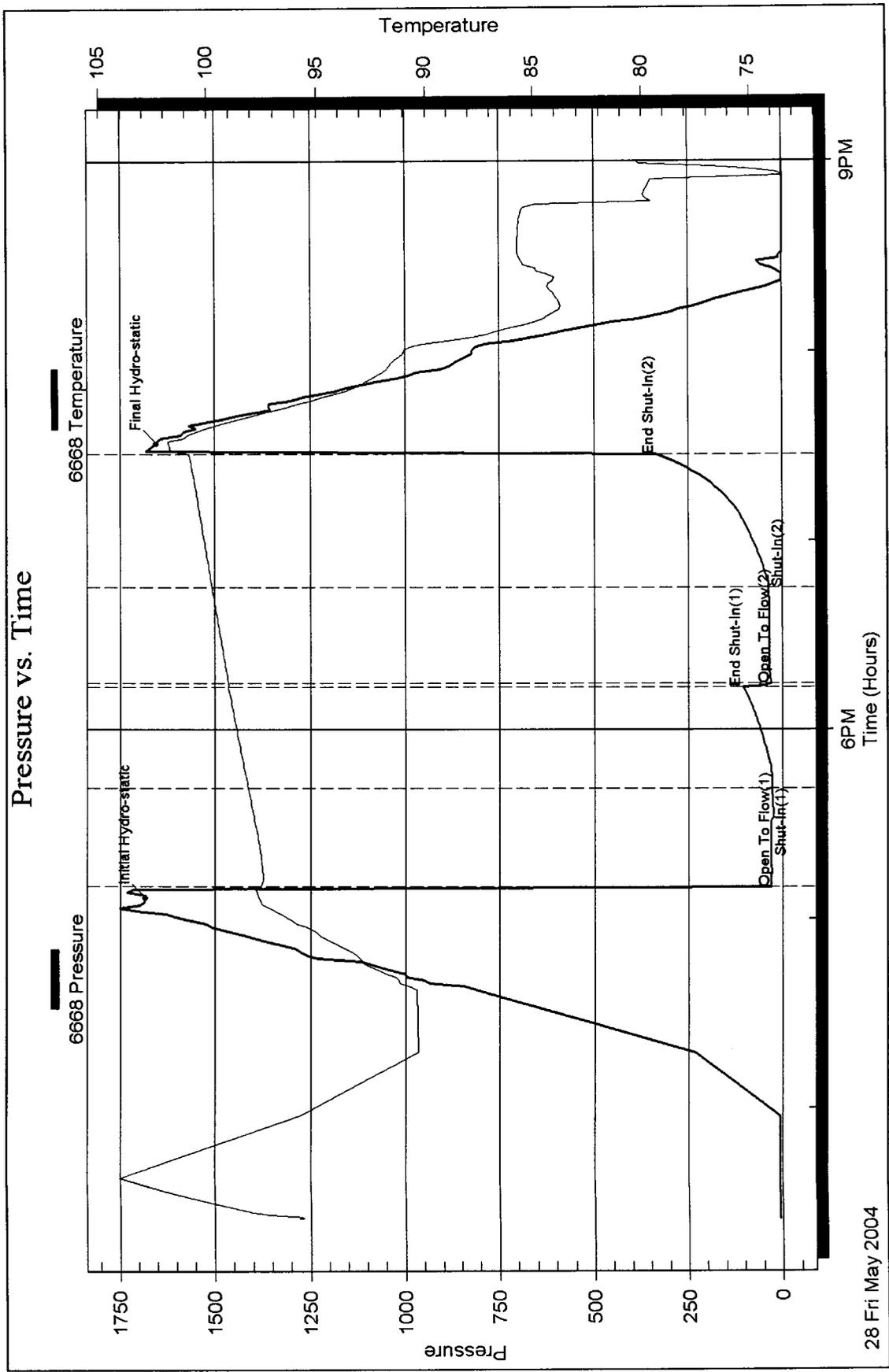
Serial #:

Laboratory Name:

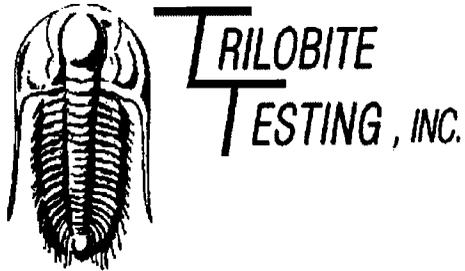
Laboratory Location:

Recovery Comments:

# Pressure vs. Time



28 Fri May 2004



## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.29 @ 10:10:35

End Date: 2004.05.29 @ 16:38:34

Job Ticket #: 19316                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
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# DRILL STEM TEST REPORT

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19316

**DST#: 3**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 10:10:35

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:07:04

Time Test Ended: 16:38:34

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3582.00 ft (KB) To 3642.00 ft (KB) (TVD)**

Total Depth: 3642.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2124.00 ft (KB)

2119.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668** Inside

Press@RunDepth: 41.57 psig @ 3587.01 ft (KB)

Start Date: 2004.05.29

End Date:

2004.05.29

Capacity: 7000.00 psig

Last Calib.: 2004.05.29

Start Time: 10:10:35

End Time:

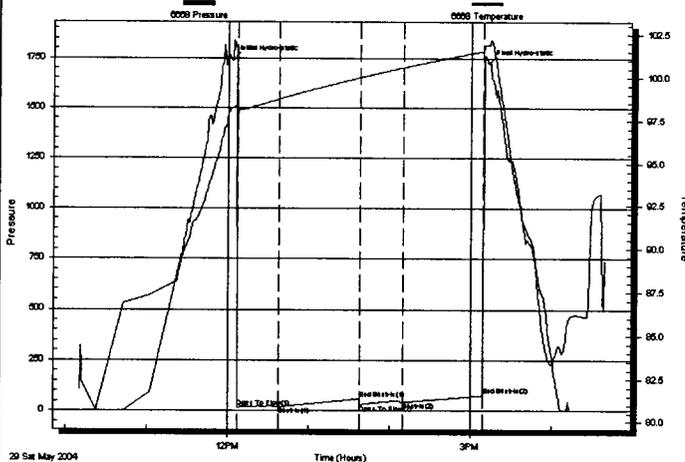
16:38:34

Time On Btm: 2004.05.29 @ 12:03:34

Time Off Btm: 2004.05.29 @ 15:13:04

TEST COMMENT: FFP-wk surface bl died in 15 min  
FFP-no bl  
Times 30-60-30-60

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.55	98.19	Initial Hydro-static
4	16.01	97.63	Open To Flow (1)
35	18.10	98.75	Shut-in(1)
94	58.47	99.99	End Shut-in(1)
95	27.53	100.00	Open To Flow (2)
126	41.57	100.58	Shut-in(2)
186	75.61	101.54	End Shut-in(2)
190	1724.77	101.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 4%oil 96%mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19316

**DST#: 3**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 10:10:35

### Tool Information

Drill Pipe:	Length: 3395.00 ft	Diameter: 3.80 inches	Volume: 47.62 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.51 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3582.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.02 ft			
Tool Length:	81.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3562.00	
Shut In Tool	5.00			3567.00	
Hydraulic tool	5.00			3572.00	
Packer	5.00			3577.00	21.00 Bottom Of Top Packer
Packer	5.00			3582.00	
Stubb	1.00			3583.00	
Perforations	4.00			3587.00	
Recorder	0.01	6668	Inside	3587.01	
Perforations	4.00			3591.01	
Change Over Sub	1.00			3592.01	
Recorder	0.01	11085	Outside	3592.02	
Blank Spacing	31.00			3623.02	
Change Over Sub	1.00			3624.02	
Perforations	15.00			3639.02	
Bullnose	3.00			3642.02	60.02 Bottom Packers & Anchor

**Total Tool Length: 81.02**



**TRIOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19316

**DST#: 3**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 10:10:35

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.68 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 4%oil 96%mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Borbs: 0

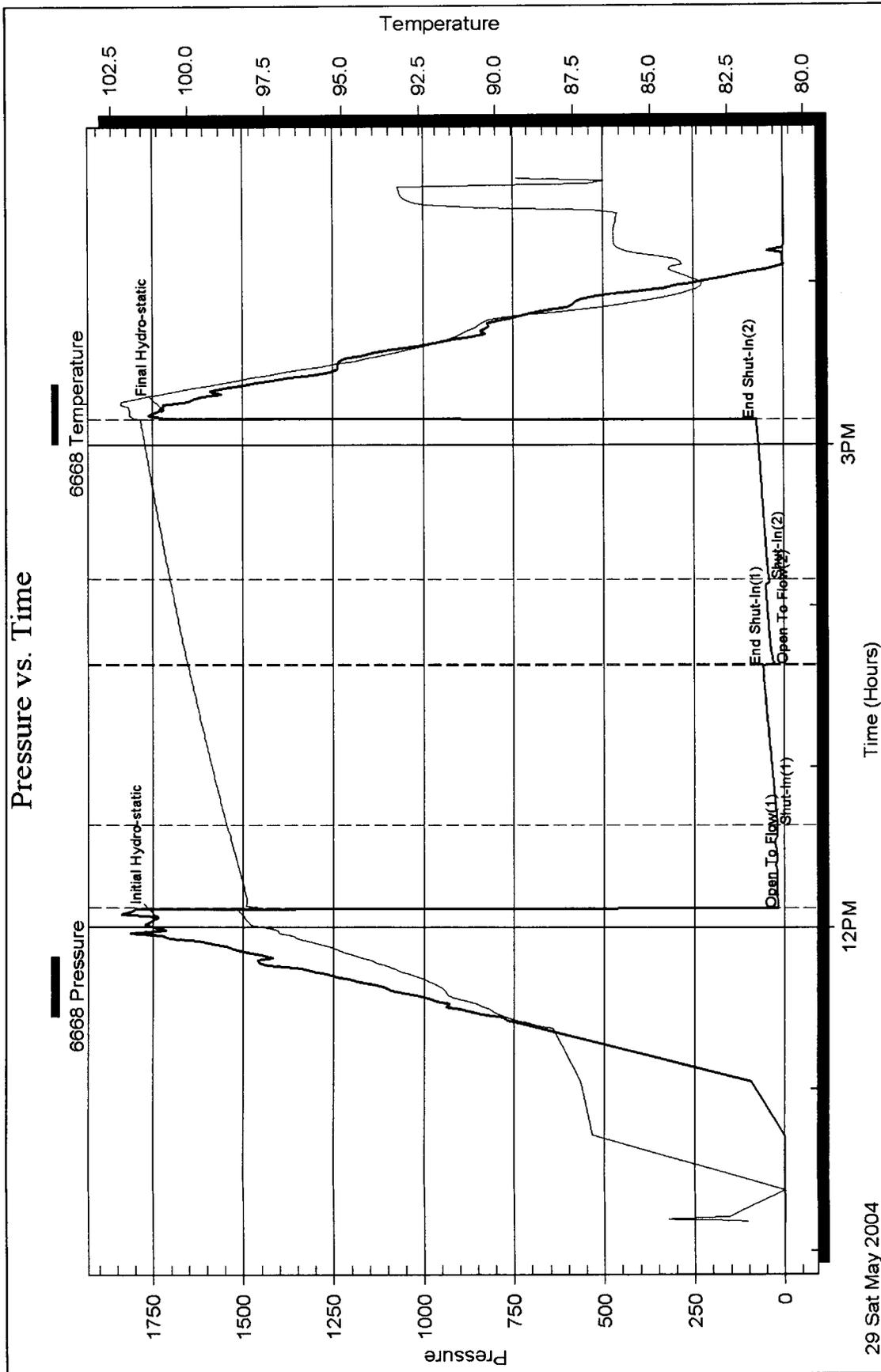
Serial #:

Laboratory Name:

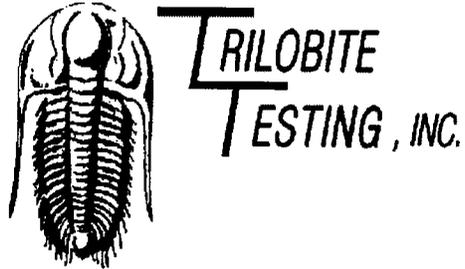
Laboratory Location:

Recovery Comments: 4 1/2#LCM

### Pressure vs. Time



29 Sat May 2004



## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.29 @ 22:02:49

End Date: 2004.05.30 @ 03:28:18

Job Ticket #: 19317                      DST #: 4

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 Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19317

**DST#: 4**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 22:02:49

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:53:48

Time Test Ended: 03:28:18

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3637.00 ft (KB) To 3647.00 ft (KB) (TVD)**

Total Depth: 3647.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2124.00 ft (KB)

2119.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668**

Inside

Press@RunDepth: 12.36 psig @ 3638.01 ft (KB)

Start Date: 2004.05.29

End Date:

2004.05.30

Start Time: 22:02:49

End Time:

03:28:18

Capacity: 7000.00 psig

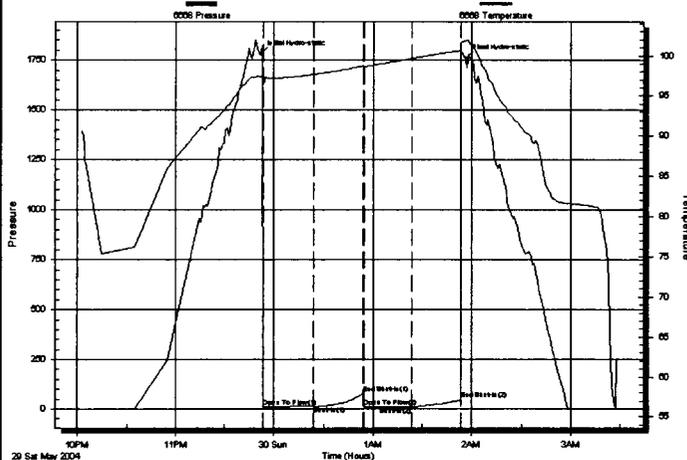
Last Calib.: 2004.05.30

Time On Btm: 2004.05.29 @ 23:51:48

Time Off Btm: 2004.05.30 @ 01:56:18

TEST COMMENT: IFP-surge when tool open , dead thru-out  
FFP-no bl  
times 30-30-30-30

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.44	97.37	Initial Hydro-static
2	10.56	96.52	Open To Flow (1)
32	12.62	97.67	Shut-In(1)
62	79.37	98.71	End Shut-In(1)
63	12.25	98.67	Open To Flow (2)
92	12.36	99.67	Shut-In(2)
122	46.08	100.63	End Shut-In(2)
125	1761.22	101.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 2%oil 98%mud	0.00
0.00	w/good show of oil on top of tool	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19317

**DST#: 4**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 22:02:49

### Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3637.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.02 ft			
Tool Length:	31.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3617.00	
Shut In Tool	5.00			3622.00	
Hydraulic tool	5.00			3627.00	
Packer	5.00			3632.00	21.00 Bottom Of Top Packer
Packer	5.00			3637.00	
Stubb	1.00			3638.00	
Recorder	0.01	6668	Inside	3638.01	
Perforations	6.00			3644.01	
Recorder	0.01	11085	Outside	3644.02	
Bullnose	3.00			3647.02	10.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>31.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19317

**DST#: 4**

ATTN: Jay G Schweikert

Test Start: 2004.05.29 @ 22:02:49

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.68 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 2%oil 98%mud	0.005
0.00	w/good show of oil on top of tool	0.000

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

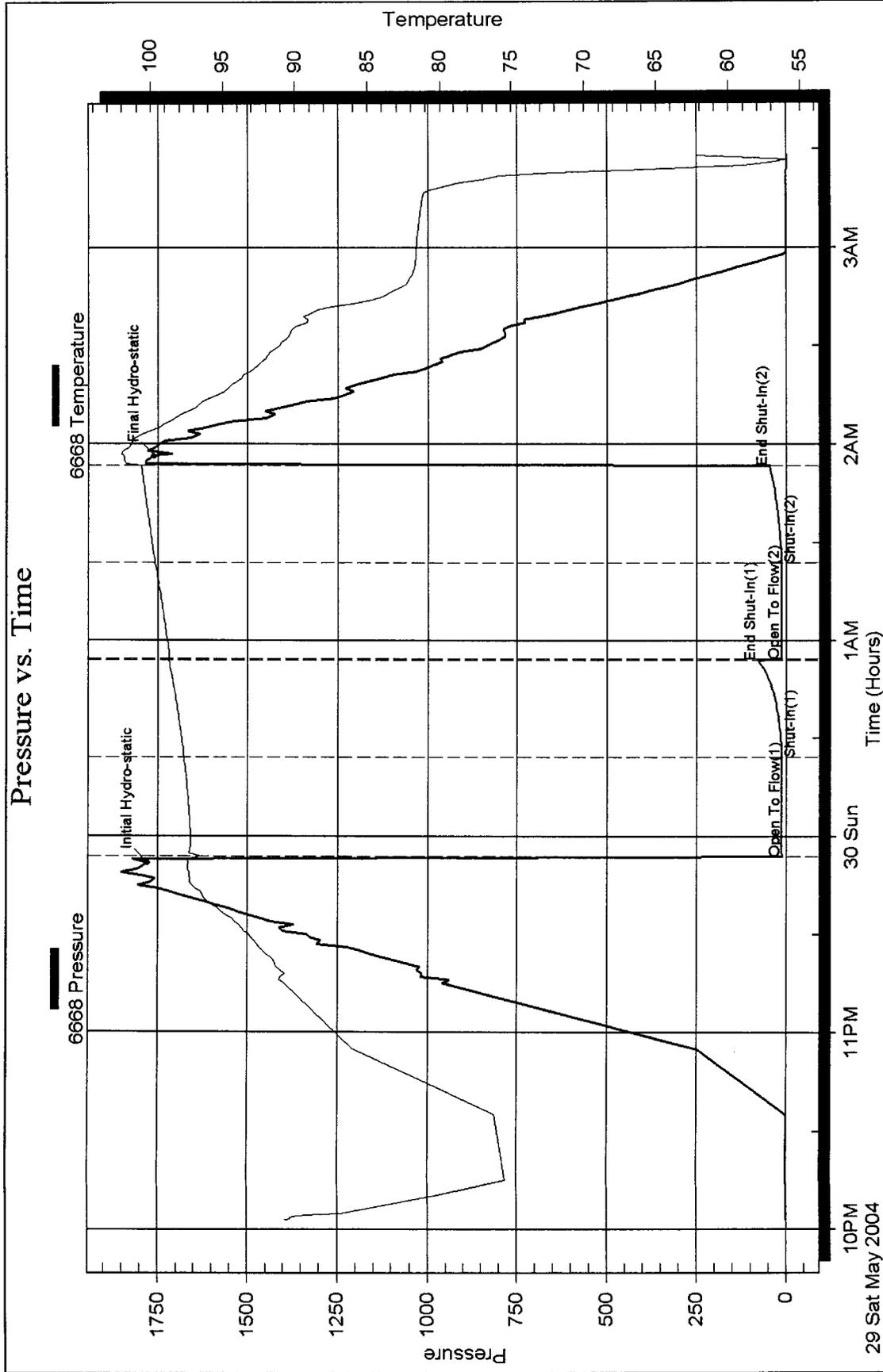
Serial #: 6668

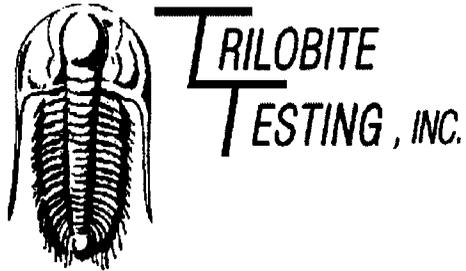
Inside

Lario Oil & Gas Company

36-11s-18w Ellis Ks

DST Test Number: 4





## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.30 @ 10:03:53

End Date: 2004.05.30 @ 17:52:52

Job Ticket #: 19318                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas Company

Marshall A#26

36-11s-18w Ellis Ks

DST # 5

Arbuckle

2004.05.30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

ATTN: Jay G Schweikert

Job Ticket: 19318

DST#: 5

Test Start: 2004.05.30 @ 10:03:53

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:55:52

Time Test Ended: 17:52:52

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3647.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3658.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GRVCF: 5.00 ft

**Serial #: 6668**

Inside

Press@RunDepth: 1153.75 psig @ 3648.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.05.30

End Date: 2004.05.30

Last Calib.: 2004.05.30

Start Time: 10:03:53

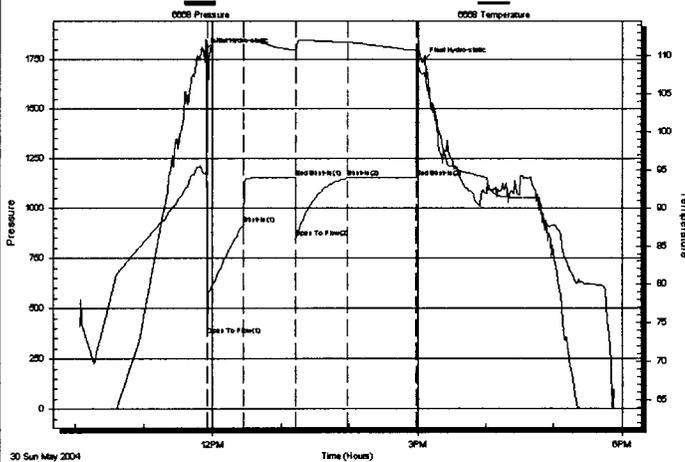
End Time: 17:52:52

Time On Btm: 2004.05.30 @ 11:52:22

Time Off Btm: 2004.05.30 @ 15:04:22

**TEST COMMENT:** IFP-strg bl in 1 min  
FFP-strg bl in 2 min  
Times 30-45-45-60  
no bl on shut-in

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.78	94.51	Initial Hydro-static
4	363.81	104.08	Open To Flow (1)
35	920.58	112.08	Shut-In(1)
80	1154.86	110.71	End Shut-In(1)
81	852.50	110.68	Open To Flow (2)
126	1153.75	111.76	Shut-In(2)
186	1154.94	110.74	End Shut-In(2)
192	1740.67	107.67	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2050.00	water RW .32@78F	27.12
220.00	OCMW 6%oil 79%water 15%mud	3.09
30.00	CO	0.42

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19318

**DST#: 5**

ATTN: Jay G Schweikert

Test Start: 2004.05.30 @ 10:03:53

### Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3647.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.02 ft			
Tool Length:	32.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3627.00	
Shut in Tool	5.00			3632.00	
Hydraulic tool	5.00			3637.00	
Packer	5.00			3642.00	21.00 Bottom Of Top Packer
Packer	5.00			3647.00	
Stubb	1.00			3648.00	
Recorder	0.01	6668	Inside	3648.01	
Perforations	7.00			3655.01	
Recorder	0.01	11085	Outside	3655.02	
Bullnose	3.00			3658.02	11.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>32.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19318

**DST#: 5**

ATTN: Jay G Schweikert

Test Start: 2004.05.30 @ 10:03:53

## 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:

26000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2050.00	water RW .32@78F	27.116
220.00	OCMW 6%oil 79%water 15%mud	3.086
30.00	CO	0.421

Total Length: 2300.00 ft

Total Volume: 30.623 bbl

Num Fluid Samples: 0

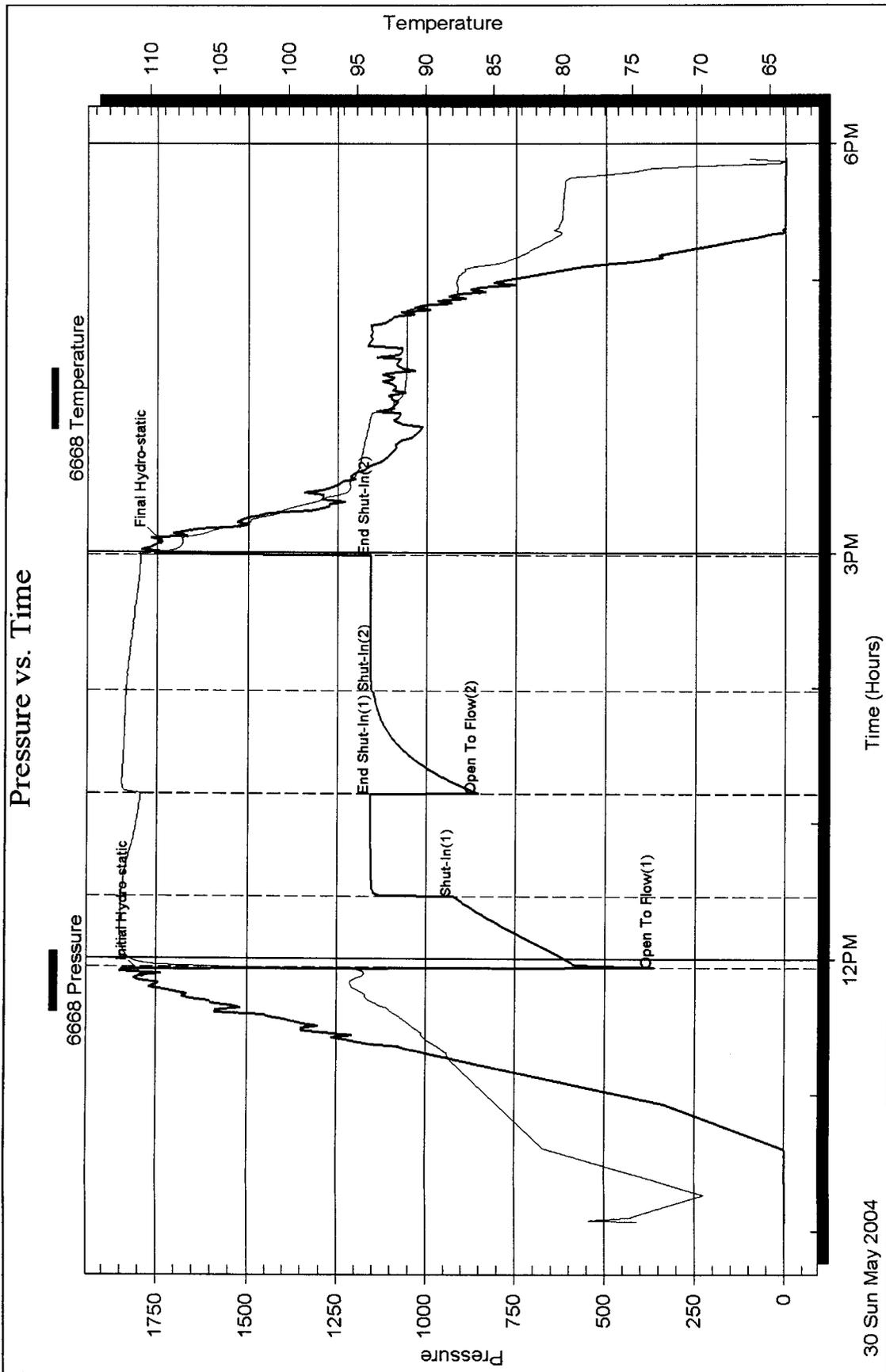
Num Gas Bombs: 0

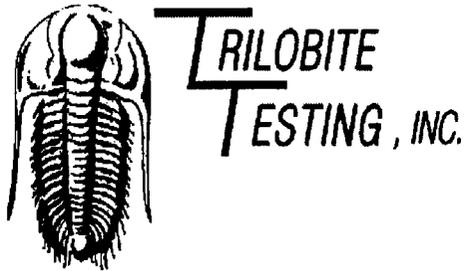
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

301 South Market  
Wichita Ks 67601

ATTN: Jay G Schweikert

**36-11s-18w Ellis Ks**

**Marshall A#26**

Start Date: 2004.05.31 @ 10:02:42

End Date: 2004.05.31 @ 15:45:41

Job Ticket #: 19319                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas Company

Marshall A#26

36-11s-18w Ellis Ks

DST # 6

LKC G

2004.05.31



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

ATTN: Jay G Schweikert

Job Ticket: 19319

**DST#: 6**

Test Start: 2004.05.31 @ 10:02:42

## GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:24:11

Time Test Ended: 15:45:41

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: **3436.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GRVCF: 5.00 ft

**Serial #: 6668**

Inside

Press@RunDepth: 49.07 psig @ 3437.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.05.31 End Date: 2004.05.31

Last Calib.: 2004.05.31

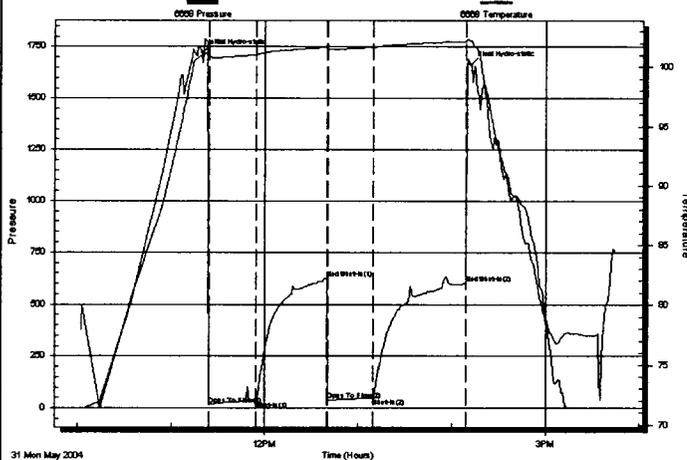
Start Time: 10:02:42 End Time: 15:45:41

Time On Btrn: 2004.05.31 @ 11:19:41

Time Off Btrn: 2004.05.31 @ 14:11:41

**TEST COMMENT:** FFP-wk surface bl died in 15 min  
FFP-no bl  
Times 30-45-30-60

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.46	100.96	Initial Hydro-static
5	17.07	100.90	Open To Flow (1)
35	32.96	101.04	Shut-in(1)
80	622.13	101.64	End Shut-in(1)
81	39.39	101.43	Open To Flow (2)
110	49.07	101.64	Shut-in(2)
169	599.01	102.16	End Shut-in(2)
172	1665.30	102.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud	0.39

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19319

**DST#: 6**

ATTN: Jay G Schweikert

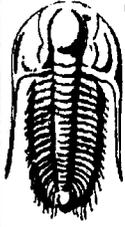
Test Start: 2004.05.31 @ 10:02:42

### Tool Information

Drill Pipe:	Length: 3241.00 ft	Diameter: 3.80 inches	Volume: 45.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3436.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3456.02 ft			
Interval between Packers:	20.02 ft			
Tool Length:	299.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3416.00	
Shut In Tool	5.00			3421.00	
Hydraulic tool	5.00			3426.00	
Packer	5.00			3431.00	21.00 Bottom Of Top Packer
Packer	5.00			3436.00	
Stubb	1.00			3437.00	
Recorder	0.01	6668	Inside	3437.01	
Perforations	10.00			3447.01	
Recorder	0.01	11085	Outside	3447.02	
Perforations	5.00			3452.02	
Blank Off Sub	1.00			3453.02	
Blank Spacing	3.00			3456.02	20.02 Tool Interval
Packer	5.00			3461.02	
Stubb	1.00			3462.02	
Perforations	3.00			3465.02	
Change Over Sub	1.00			3466.02	
Recorder	0.01	13547	Below	3466.03	
Blank Spacing	244.00			3710.03	
Change Over Sub	1.00			3711.03	
Bullnose	3.00			3714.03	258.01 Bottom Packers & Anchor

**Total Tool Length: 299.03**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

**Marshall A#26**

301 South Market  
Wichita Ks 67601

**36-11s-18w Ellis Ks**

Job Ticket: 19319

**DST#: 6**

ATTN: Jay G Schw eikert

Test Start: 2004.05.31 @ 10:02:42

**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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
80.00	mud	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

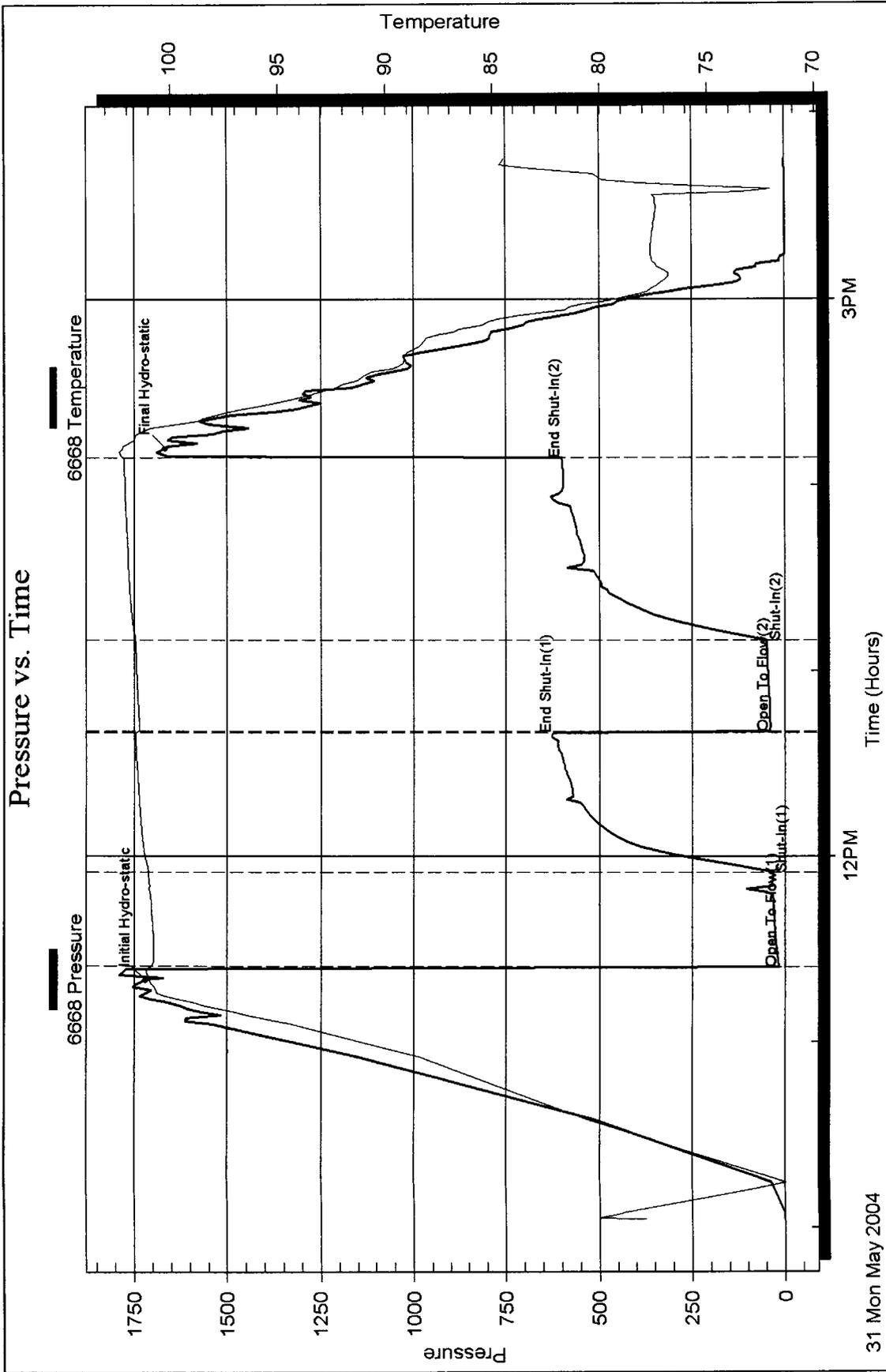
Recovery Comments:

Serial #: 6668

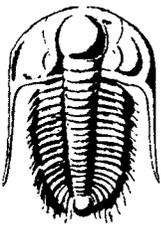
Inside Lario Oil & Gas Company

36-11s-18w Ellis Ks

DST Test Number: 6



31 Mon May 2004



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19314

05/03

## Test Ticket

Well Name & No. MARSHALL A #26 Test No. 1 Date 5-27-04  
 Company LARIO OIL & GAS COMPANY Zone Tested LKC A-0  
 Address 301 SOUTH MARKET WICHITA, KS 67202 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. Randy Killian Cont. MURFIN 1198 Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks  
 No. of Copies Reg Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3337-3412 Initial Str Wt./Lbs. 45000 Unseated Str Wt./Lbs. 47000  
 Anchor Length 75 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70000  
 Top Packer Depth 3332 Tool Weight 2200  
 Bottom Packer Depth 3337 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3412 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9 LCM - Vis. 46 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3156  
 Blow Description TFP - WEAK TO A GOOD BLOW 1" TO 7" BLOW  
FFP - WEAK TO A FAIR BLOW 1/4" TO 4" BLOW  
NO BLOW ON SHUT-INS

Recovery - Total Feet 530 GIP - Ft. in DC 180 Ft. in DP 350  
 Rec. 180 Feet of MW w/show of oil %gas \_\_\_\_\_ %oil 80 %water 20 %mud \_\_\_\_\_  
 Rec. 350 Feet of WATER %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 104 °F Gravity - °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .29 @ 68 °F Chlorides 25000 ppm Recovery \_\_\_\_\_ Chlorides 4500 ppm System

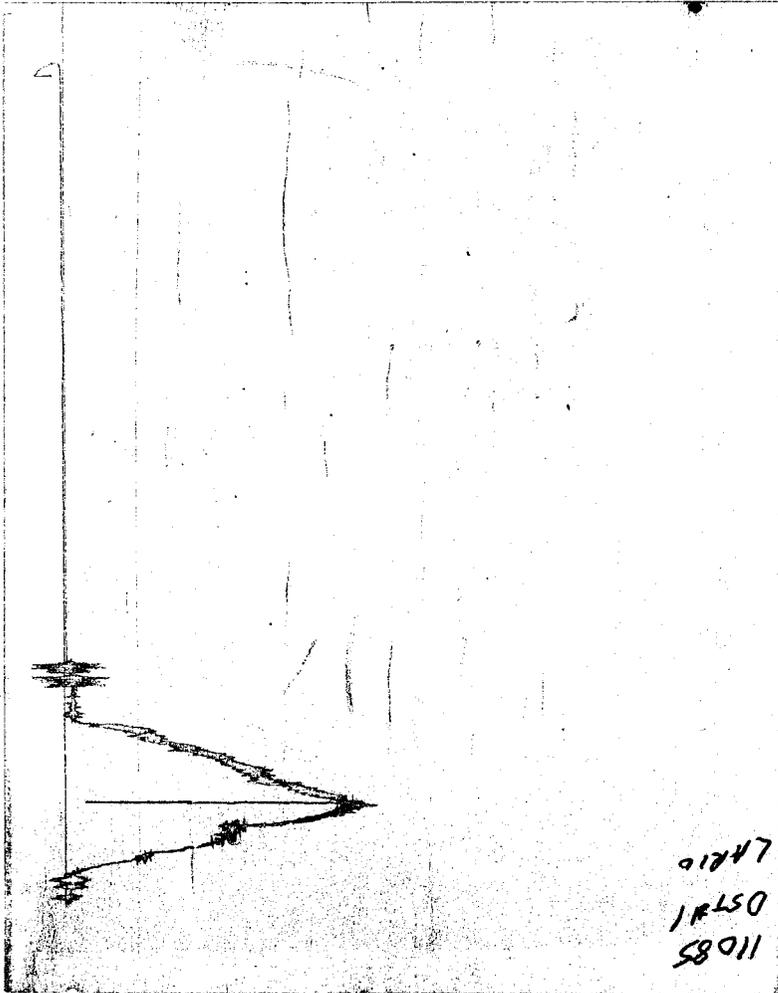
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1581</u>		<u>6668</u>	<u>700</u>
(B) First Initial Flow Pressure		<u>48</u>		(depth) <u>3342</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure		<u>163</u>		Recorder No. <u>11085</u>	Jars _____
(D) Initial Shut-In Pressure		<u>729</u>		(depth) <u>3347</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>179</u>		Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>266</u>		(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		<u>692</u>		<b>Initial Opening</b> <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1565</u>		Initial Shut-In <u>60</u>	Ext. Packer _____
				Final Flow <u>45</u>	Shale Packer _____
				Final Shut-In <u>60</u>	Mileage <u>24 one way 40.80</u>

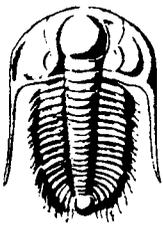
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_ T-Started 2720  
 Our Representative RAY SCHWAGER THANK YOU T-Open 2320  
 T-Pulled 0235  
 T-Out 0921  
 Sub Total: \_\_\_\_\_ Std. By \_\_\_\_\_  
 Total: 940.80

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19315

05/03

## Test Ticket

Well Name & No. MARSHALL A#26 Test No. 2 Date 5-28-04  
 Company LARIO OIL & GAS COMPANY Zone Tested LKC H-5  
 Address 301 SOUTH MARKET WICHITA, KS 67202 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. Randy Killian Cont. MURFIN B Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks  
 No. of Copies Reg Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3467-3540 Initial Str Wt./Lbs. 46000 Unseated Str Wt/Lbs. 46000  
 Anchor Length 73 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000  
 Top Packer Depth 3462 Tool Weight 2200  
 Bottom Packer Depth 3467 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3540 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9 LCM - Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3280  
 Blow Description IFP-WEAK SURFACE BLOW DIED IN 25 MIN  
FFP-NO BLOW FIRST 6 MIN, THEN WEAK SURFACE BLOW THROUGH

Recovery - Total Feet 40 GIP 140 Ft. in DC 40 Ft. in DP -  
 Rec. 40 Feet of M60 25 %gas 45 %oil %water 30 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 100 °F Gravity - °API D @ - °F Corrected Gravity - °API  
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 5500 ppm System

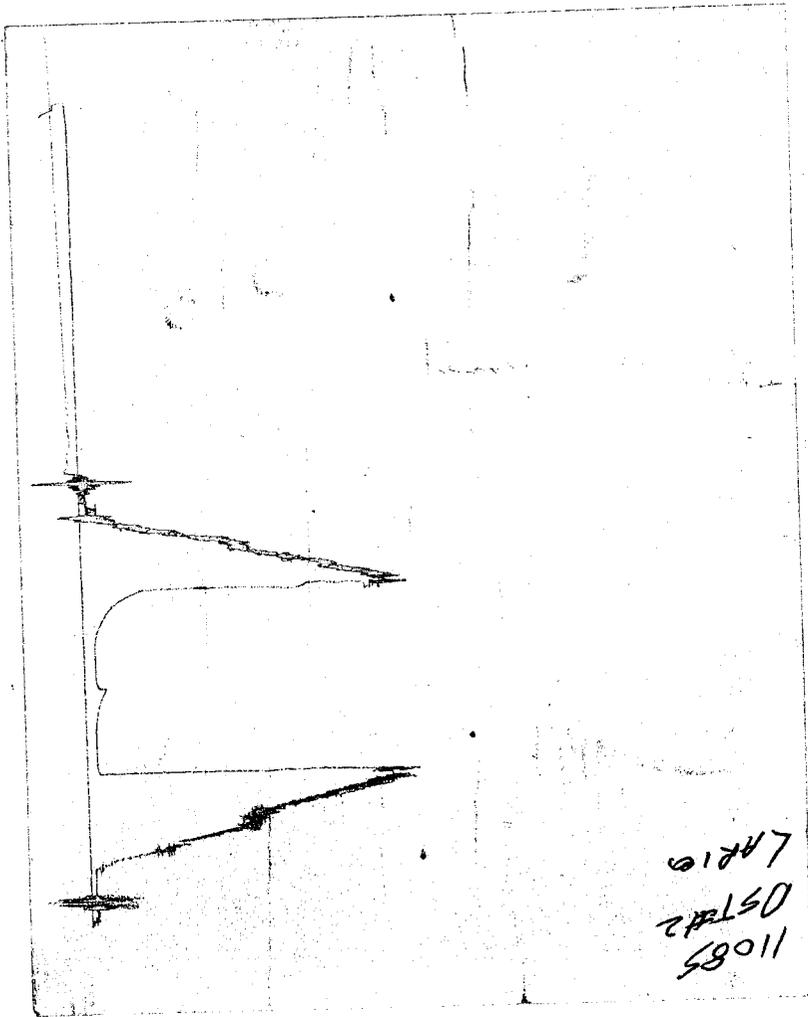
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1683</u> PSI	<u>6668</u>	<input checked="" type="checkbox"/> <u>900</u>
(B) First Initial Flow Pressure	<u>29</u> PSI	(depth) <u>3470</u>	Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
(C) First Final Flow Pressure	<u>27</u> PSI	Recorder No. <u>11085</u>	Jars _____
(D) Initial Shut-In Pressure	<u>105</u> PSI	(depth) <u>3475</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>29</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>35</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure	<u>336</u> PSI	<b>Initial Opening</b> <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1652</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer _____
		Final Shut-In <u>35</u>	Mileage <input checked="" type="checkbox"/> <u>24</u> <u>40.80</u>
		<b>T-On Location</b> <u>1500</u>	Sub Total: _____
		T-Started <u>1525</u>	Std. By _____
		T-Open <u>1710</u>	Other _____
		T-Pulled <u>1926</u>	Total: <u>940.80</u>
		T-Out <u>2100</u>	

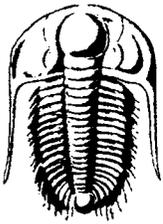
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Approved By \_\_\_\_\_  
 Our Representative RAY SCHWAGER THANK  
4/20/04

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19316

05/03

## Test Ticket

Well Name & No. MARSHALL A-26 Test No. 3 Date 5-29-04  
 Company LARIO OIL & GAS COMPANY Zone Tested Arbuckle  
 Address 301 SOUTH MARKET WICHITA, KS 67202 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. Randy Killian Cont. MURFIN B Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks  
 No. of Copies Reg Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3582-3642 Initial Str Wt./Lbs. 47000 Unseated Str Wt/Lbs. 47000  
 Anchor Length 60 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000  
 Top Packer Depth 3577 Tool Weight 2200  
 Bottom Packer Depth 3582 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3642 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9.2 LCM 4 1/2# Vis. 50 WL 8.8 Drill Pipe Size 4 1/2XH Ft. Run 3395  
 Blow Description IFP - WEAK SURFACE BLOW died in 15 min  
FFP - NO BLOW

Recovery - Total Feet 5 GIP - Ft. in DC 5 Ft. in DP \_\_\_\_\_  
 Rec. 5 Feet of SOCM %gas 4 %oil \_\_\_\_\_ %water 96 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 101 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 9000 ppm System

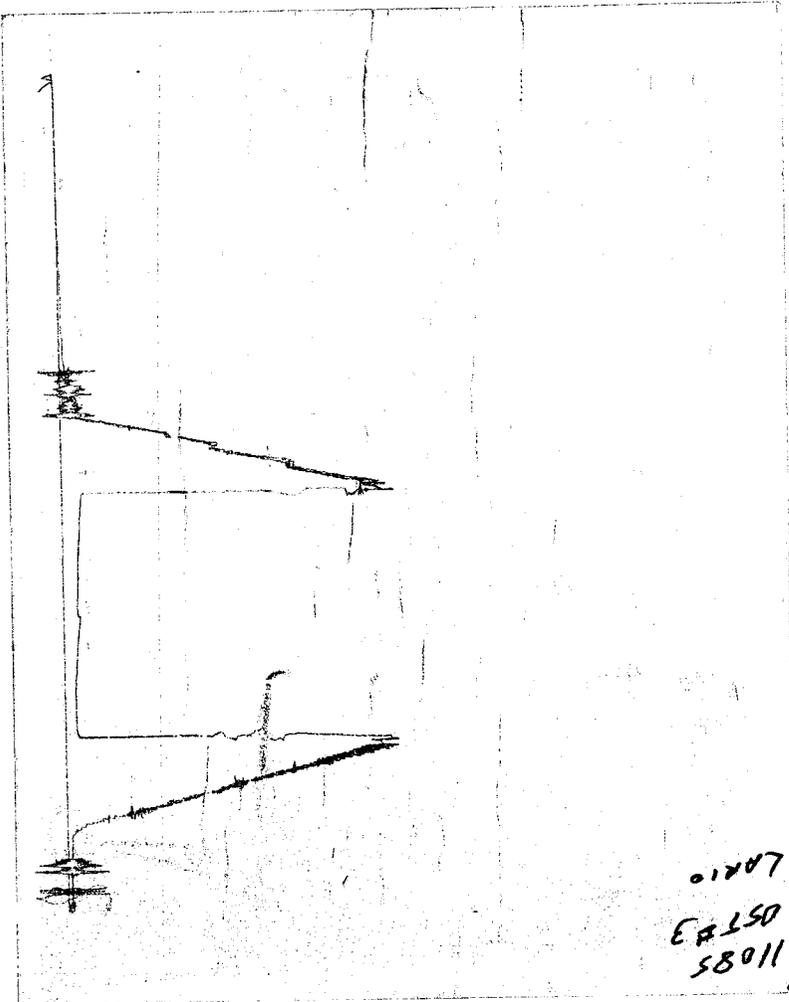
(A) Initial Hydrostatic Mud	AK-1	Alpine	1740	PSI	Recorder No.	6668	Test	✓	100
(B) First Initial Flow Pressure			16	PSI	(depth)	3587	Elec. Rec.	✓	150
(C) First Final Flow Pressure			18	PSI	Recorder No.	11085	Jars		
(D) Initial Shut-In Pressure			58	PSI	(depth)	3592	Safety Jt.		
(E) Second Initial Flow Pressure			27	PSI	Recorder No.	-	Circ Sub		
(F) Second Final Flow Pressure			41	PSI	(depth)	-	Sampler		
(G) Final Shut-In Pressure			75	PSI	Initial Opening	30	Straddle		
(Q) Final Hydrostatic Mud			1724	PSI	Initial Shut-In	60	Ext. Packer		
					Final Flow	30	Shale Packer		
					Final Shut-In	60	Mileage	✓ 24	40.80
					T-On Location	0945	Sub Total:		
					T-Started	1010	Std. By		
					T-Open	1210	Other		
					T-Pulled	1510	Total:		940.80
					T-Out	1638			

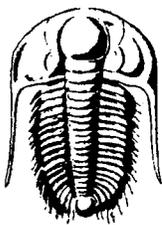
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Approved By \_\_\_\_\_  
 Our Representative Ray Schwager Thank  
404

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19317

05/03

## Test Ticket

Well Name & No. MARSHALL A-26 Test No. 4 Date 5-29-04  
 Company LARIO OIL & GAS COMPANY Zone Tested ARBUCKLE  
 Address 301 SOUTH MARKET WICHITA, K0 67202 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. RANDY KILLIAN Cont. MURFIN 8 Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State K0  
 No. of Copies Req Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3637-3647 Initial Str Wt./Lbs. 47000 Unseated Str Wt/Lbs. 47000  
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000  
 Top Packer Depth 3632 Tool Weight 2200  
 Bottom Packer Depth 3637 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3647 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9.2 LCM 4 1/2# Vis. 50 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3456  
 Blow Description IFP - SURGE, NO BLOW  
FFP - NO BLOW

Recovery - Total Feet 1 GIP - Ft. in DC 1 Ft. in DP -  
 Rec. 1 Feet of 56 CM %gas 2 %oil - %water 98 %mud -  
 Rec. \_\_\_\_\_ Feet of w/ good show of oil %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of on top of tool %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 100 °F Gravity - °API D @ - °F Corrected Gravity - °API  
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 9000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1779	PSI	6668	100
(B) First Initial Flow Pressure	10	PSI	3638	150
(C) First Final Flow Pressure	12	PSI	11085	
(D) Initial Shut-In Pressure	79	PSI	3644	
(E) Second Initial Flow Pressure	12	PSI	-	
(F) Second Final Flow Pressure	12	PSI	-	
(G) Final Shut-In Pressure	46	PSI	Initial Opening	
(Q) Final Hydrostatic Mud	1761	PSI	Initial Shut-In	

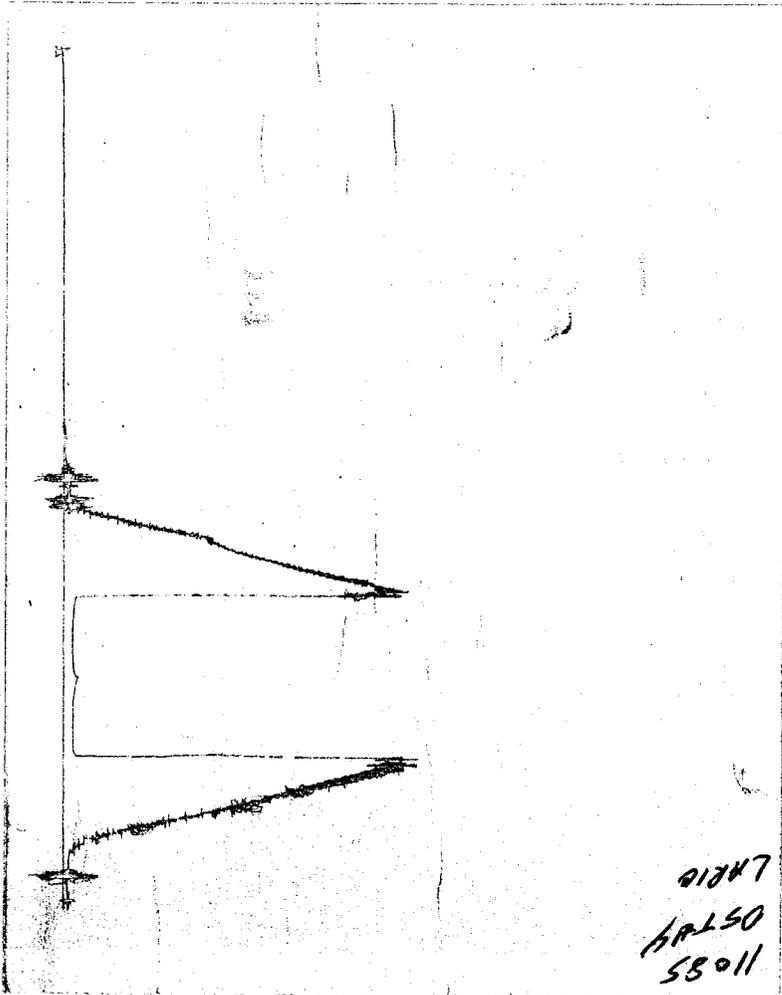
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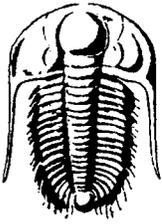
Final Flow 30 Shale Packer \_\_\_\_\_  
 Final Shut-In 30 Mileage 24 40.80  
 T-On Location 2145 Sub Total: \_\_\_\_\_  
 T-Started 2202 Std. By \_\_\_\_\_  
 T-Open 2355 Other \_\_\_\_\_  
 T-Pulled 0155 Total: 940.80  
 T-Out 0328

Approved By \_\_\_\_\_  
 Our Representative Ray Schwager Thank you

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19318

05/03

## Test Ticket

Well Name & No. MARSHALL A-26 Test No. 5 Date 5-30-04  
 Company LARIC OIL & GAS COMPANY Zone Tested ARBUCKLE  
 Address 301 South MARKET WICHITA, KS 67204 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. Randy Killian Cont. MURFIN 8 Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State KO  
 No. of Copies Reg Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3647-3658 Initial Str Wt./Lbs. 47000 Unseated Str Wt./Lbs. 58000  
 Anchor Length 11 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000  
 Top Packer Depth 3642 Tool Weight 2200  
 Bottom Packer Depth 3647 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3656 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9.2 LCM 3 1/2# Vis. 55 WL 10 Drill Pipe Size 4 1/2XH Ft. Run 3457  
 Blow Description IFP - STRONG BLOW IN 1 MIN  
FFP - STRONG BLOW IN 2 MIN  
NO BLOW ON SHUT-IN

Recovery - Total Feet 2300 GIP - Ft. in DC 180 Ft. in DP 2120  
 Rec. 2050 Feet of WATER %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 220 Feet of OC MW %gas 6 %oil 79 %water 15 %mud \_\_\_\_\_  
 Rec. 30 Feet of CO %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 110 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .32 @ 78 °F Chlorides 26000 ppm Recovery \_\_\_\_\_ Chlorides 12,500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1788	PSI	Recorder No.	6668	Test	✓	700
(B) First Initial Flow Pressure			363	PSI	(depth)	3648	Elec. Rec.	✓	150
(C) First Final Flow Pressure			920	PSI	Recorder No.	11085	Jars		
(D) Initial Shut-In Pressure			1154	PSI	(depth)	3655	Safety Jt.		
(E) Second Initial Flow Pressure			852	PSI	Recorder No.	-	Circ Sub		
(F) Second Final Flow Pressure			1153	PSI	(depth)	-	Sampler		
(G) Final Shut-In Pressure			1154	PSI	Initial Opening	30	Straddle		
(Q) Final Hydrostatic Mud			1740	PSI	Initial Shut-In	45	Ext. Packer		
					Final Flow	45	Shale Packer		
					Final Shut-In	60	Mileage	✓ 24	40.80
					T-On Location	0945	Sub Total:		
					T-Started	1003	Std. By		
					T-Open	1200	Other		
					T-Pulled	1500	Total:		940.80
					T-Out	1752			

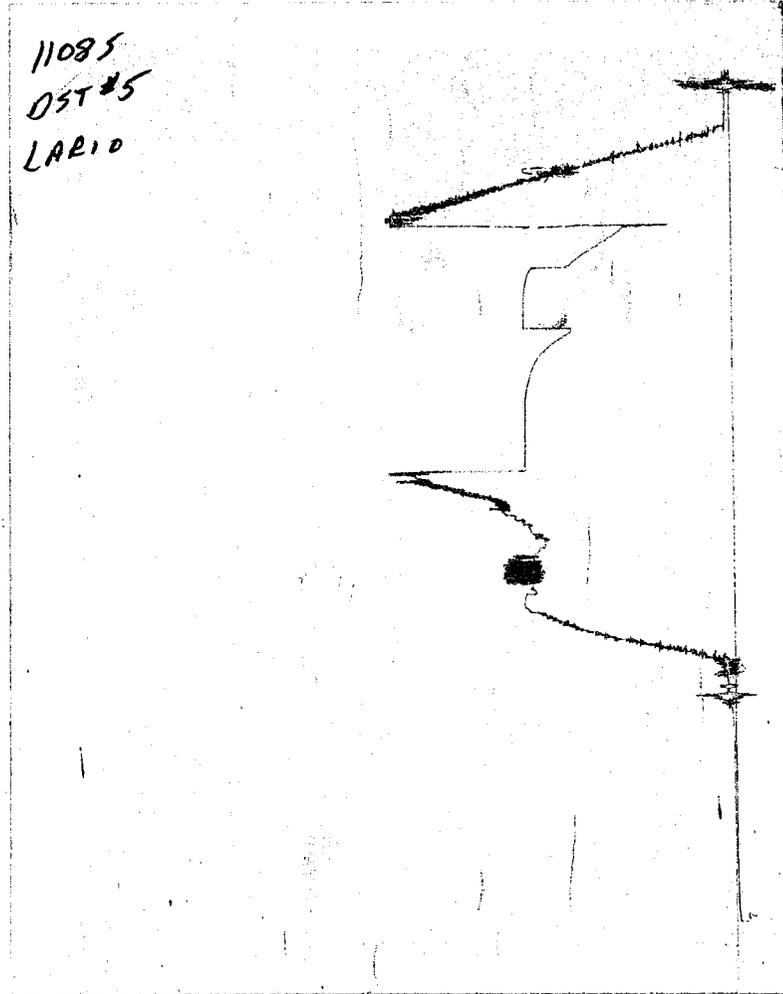
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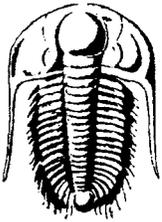
Approved By \_\_\_\_\_

Our Representative Ray Schwager Thank you

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19319

05/03

## Test Ticket

Well Name & No. MARSHALL D-26 Test No. 6 Date 5-31-04  
 Company LARIO OIL & GAS COMPANY Zone Tested KC "G"  
 Address 301 SOUTH MARKET WICHITA, KS 67202 Elevation 2124 KB 2119 GL  
 Co. Rep / Geo. Randy Killian Cont. MURFIN B Est. Ft. of Pay - Por. - %  
 Location: Sec. 36 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks  
 No. of Copies Reg Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3436-3456 Initial Str Wt./Lbs. 48000 Unseated Str Wt./Lbs. 48000  
 Anchor Length 20 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000  
 Top Packer Depth 3436-3431 Tool Weight 2500  
 Bottom Packer Depth 3456 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3710 Wt. Pipe Run - Drill Collar Run 180  
 Mud Wt. 9.1 LCM 6 1/2# Vis. 55 WL 8.8 Drill Pipe Size 4 1/2XH Ft. Run 3241  
 Blow Description IFP- WEAK SURFACE BLOW, DIED IN 15 MIN  
FFP- NO BLOW  
NO BLOW ON SHUT-IN

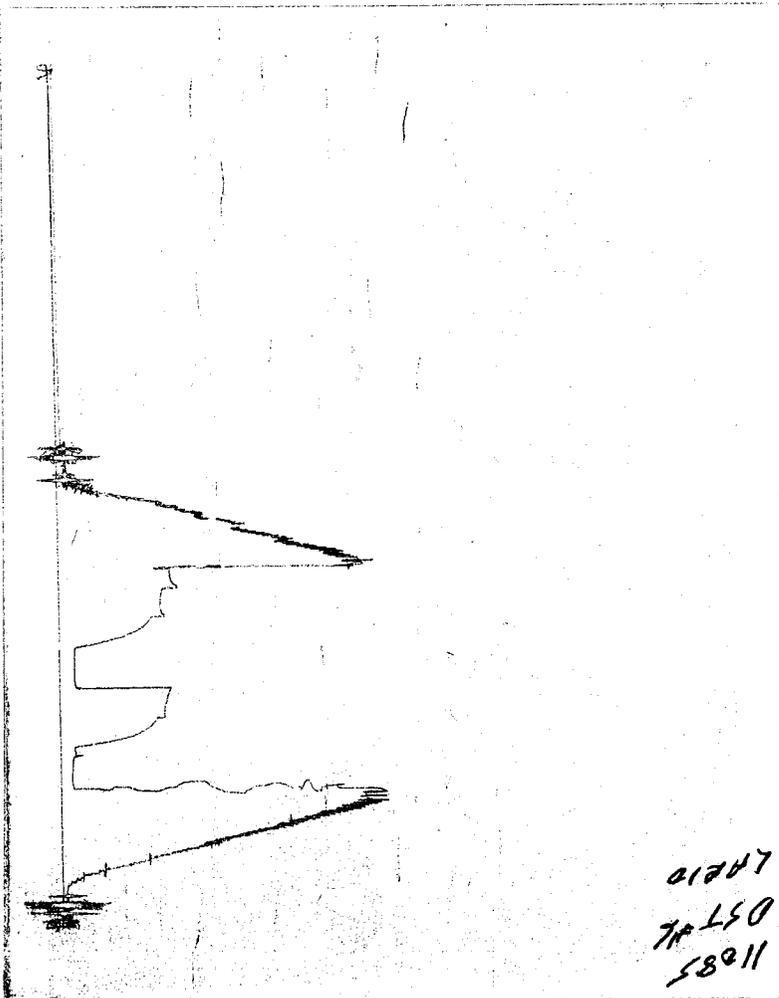
Recovery - Total Feet 80 GIP - Ft. in DC 80 Ft. in DP -  
 Rec. 80 Feet of Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 102 °F Gravity - °API D @ - °F Corrected Gravity - °API  
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 14000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1720	PSI	Recorder No.	6668	Test	✓	700
(B) First Initial Flow Pressure			17	PSI	(depth)	3437	Elec. Rec.	✓	150
(C) First Final Flow Pressure			32	PSI	Recorder No.	11085	Jars		
(D) Initial Shut-In Pressure			622	PSI	(depth)	3447	Safety Jt.		
(E) Second Initial Flow Pressure			39	PSI	Recorder No.	13547	Circ Sub		
(F) Second Final Flow Pressure			49	PSI	(depth)	3461	Sampler		
(G) Final Shut-In Pressure			599	PSI	Initial Opening	30	Straddle	✓	250
(Q) Final Hydrostatic Mud			1665	PSI	Initial Shut-In	45	Ext. Packer	✓	150
					Final Flow	30	Shale Packer		
					Final Shut-In	60	Mileage	✓	24 46.50
					T-On Location	0915	Sub Total:		
					T-Started	1002	Std. By		
					T-Open	1125	Other		
					T-Pulled	1410	Total:		1290 80
					T-Out	1545			

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Approved By \_\_\_\_\_  
 Our Representative RAY SCHWAGER THANK YOU

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# CHART PAGE

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