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JUL 26 2004

KCC WICHITA

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 33268
Name: RL Investment, LLC
Address: 217 Saint Peter St.
City/State/Zip: Morland, KS 67650
Purchaser: Semcrude
Operator Contact Person: Leon Pfeifer
Phone: (785) 627-5711
Contractor: Name: Murfin Drilling
License: 30606
Wellsite Geologist: Pat Dennihan

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Designate Type of Completion:
New Well Re-Entry Workover
Oil SWD SLOW Temp. Abd.
Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
Deepening Re-perf. Conv. to Enhr./SWD
Plug Back Plug Back Total Depth
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Enhr.?) Docket No.

3-11-04 3-20-04 5-18-04
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 065-22961 0000
County: Graham
NW-NE-SW-NN Sec. 5 Twp. 9 S. R. 25 East West
1310 3950 feet from (S) (circle one) Line of Section
880 4494 feet from (E) (circle one) Line of Section
KCC GPS
Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW
Lease Name: Johnson Well #: 2
Field Name: Knoll NW
Producing Formation: LKC
Elevation: Ground: 2541 Kelly Bushing: 2546
Total Depth: 4495 Plug Back Total Depth: 4134
Amount of Surface Pipe Set and Cemented at Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2260 Feet
If Alternate II completion, cement circulated from 2260
feet depth to surface w/ 300

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 3000 ppm Fluid volume 900 bbls
Dewatering method used evaporate
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp. S. R. East West
County: Docket No.:

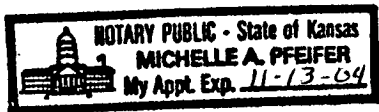
Alt-2-Dlg-2/10/09

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Leon Pfeifer
Title: Member Date: 7-2-04
Subscribed and sworn to before me this 2nd day of July
2004.
Notary Public: Michelle A Pfeifer
Date Commission Expires: 11-13-04

KCC Office Use ONLY
Letter of Confidentiality Received
If Denied, Yes Date:
Wireline Log Received
Geologist Report Received
UIC Distribution



Operator Name: RL Investment, LLC Lease Name: Johnson Well #: 2
 Sec. 5 Twp. 9 S. R. 25 East West County: Graham

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Sonic DIL CDL/CNL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Name</td> <td style="width: 20%;">Top</td> <td style="width: 20%;">Datum</td> </tr> <tr> <td>Anhy.</td> <td>2245</td> <td>+301</td> </tr> <tr> <td>Heebner</td> <td>3783</td> <td>-1237</td> </tr> <tr> <td>Lansing</td> <td>3818</td> <td>-1272</td> </tr> <tr> <td>BKC</td> <td>4049</td> <td>-1503</td> </tr> <tr> <td>Miss.</td> <td>4369</td> <td>-1823</td> </tr> <tr> <td>TD</td> <td>4494</td> <td>-1948</td> </tr> </table>	Name	Top	Datum	Anhy.	2245	+301	Heebner	3783	-1237	Lansing	3818	-1272	BKC	4049	-1503	Miss.	4369	-1823	TD	4494	-1948
Name	Top	Datum																				
Anhy.	2245	+301																				
Heebner	3783	-1237																				
Lansing	3818	-1272																				
BKC	4049	-1503																				
Miss.	4369	-1823																				
TD	4494	-1948																				

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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4	8 5/8	20	225	common	160	160 sks common <i>3% cc 2% gel</i>
casing	7 7/8	5 1/2	14	4134	common	475	475 sks common <i>3% cc</i>

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3946 1/2 to 3948 1/2	250 gel mud acid	
4	3991 to 3993	250 gel mud acid	

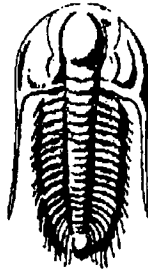
TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2 7/8	4010		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumerd Production, SWD or Enhr. 5-20-04			Producing Method				
			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	30		60		35		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **RL Investments LLC**

217 St Peter Street
Morland Ks 67650

ATTN: Leon Pfeifer

5-9s-25w Graham Ks

Johnson #2

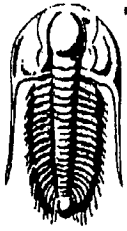
Start Date: 2004.03.15 @ 21:19:04

End Date: 2004.03.16 @ 05:08:33

Job Ticket #: 19845 DST #: 1

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KCC WICHITA**

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RL Investments LLC
 217 St Peter Street
 Morland Ks 67650
 ATTN: Leon Pfeifer

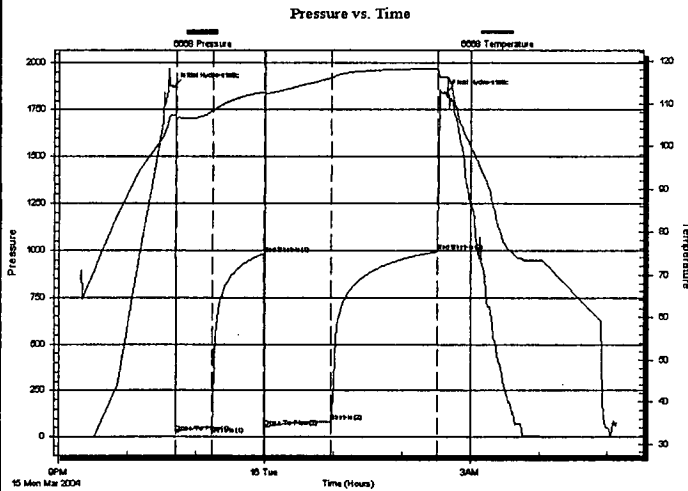
Johnson #2
5-9s-25w Graham Ks
 Job Ticket: 19845 **DST#: 1**
 Test Start: 2004.03.15 @ 21:19:04

GENERAL INFORMATION:

Formation: **LKC A&B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:43:03
 Time Test Ended: 05:08:33
 Interval: **3806.00 ft (KB) To 3852.00 ft (KB) (TVD)**
 Total Depth: 3852.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 28
 Reference Elevations: 2551.00 ft (KB)
 2546.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668 **Inside**
 Press@RunDepth: 85.17 psig @ 3818.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.03.15 End Date: 2004.03.16 Last Calib.: 2004.03.16
 Start Time: 21:19:04 End Time: 05:08:33 Time On Btm: 2004.03.15 @ 22:40:03
 Time Off Btm: 2004.03.16 @ 02:37:03

TEST COMMENT: IFF-w k bl thru-out 1/4" to 3/4" bl
 FFP-w k bl thru-out 1/4"
 Times 30-45-60-90



PRESSURE SUMMARY

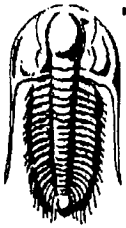
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.89	107.26	Initial Hydro-static
3	20.61	106.42	Open To Flow (1)
34	55.04	108.19	Shut-In(1)
79	981.20	112.74	End Shut-In(1)
80	53.17	112.52	Open To Flow (2)
138	85.17	116.07	Shut-In(2)
231	992.48	118.30	End Shut-In(2)
237	1840.13	116.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 1%oil 99%mud	0.30
90.00	MW 20%mud 80%w ater	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19845

DST#: 1

ATTN: Leon Pfeifer

Test Start: 2004.03.15 @ 21:19:04

Tool Information

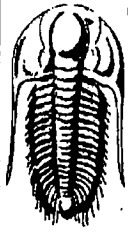
Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 495.00 ft	Diameter: 2.25 inches	Volume: 2.43 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3806.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.02 ft			
Tool Length:	67.02 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			3786.00	
Shut In Tool	5.00			3791.00	
Hydraulic tool	5.00			3796.00	
Packer	5.00			3801.00	21.00 Bottom Of Top Packer
Packer	5.00			3806.00	
Stubb	1.00			3807.00	
Perforations	10.00			3817.00	
Change Over Sub	1.00			3818.00	
Recorder	0.01	6668	Inside	3818.01	
Blank Spacing	30.00			3848.01	
Change Over Sub	1.00			3849.01	
Recorder	0.01	11085	Outside	3849.02	
Bullnose	3.00			3852.02	46.02 Bottom Packers & Anchor

Total Tool Length: 67.02

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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19845

DST#: 1

ATTN: Leon Pfeifer

Test Start: 2004.03.15 @ 21:19:04

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:

48000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCM 1%oil 99%mud	0.295
90.00	MW 20%mud 80%water	0.443

Total Length: 150.00 ft

Total Volume:

0.738 bbl

Num Fluid Samples: 0

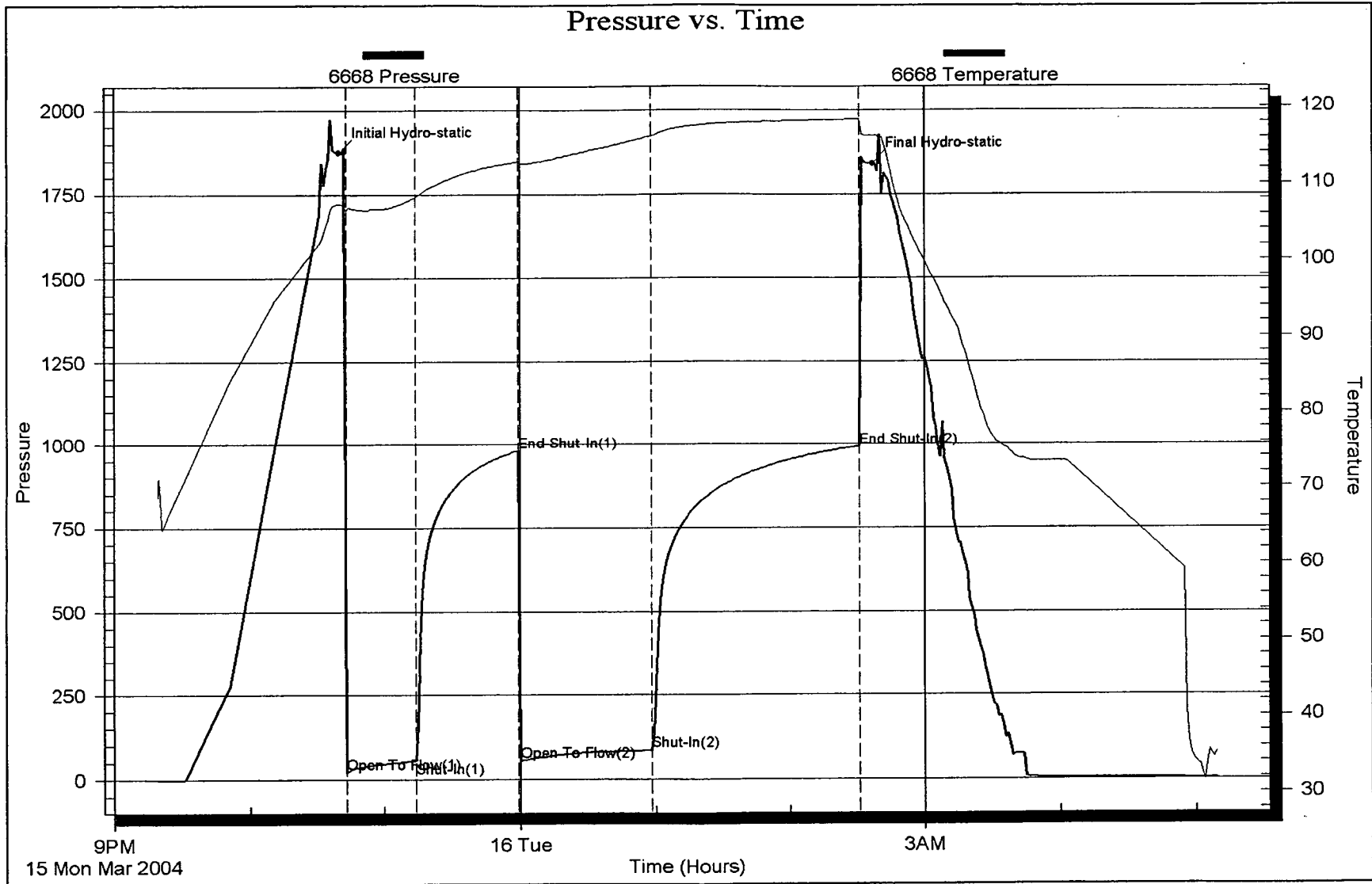
Num Gas Bombs: 0

Serial #:

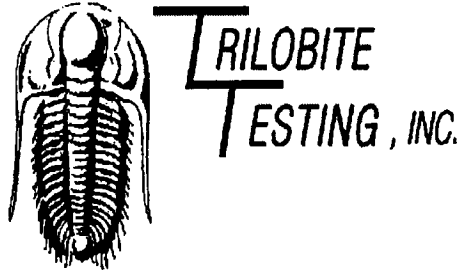
Laboratory Name:

Laboratory Location:

Recovery Comments: RW.34@33F



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DRILL STEM TEST REPORT

Prepared For: **RL Investments LLC**

217 St Peter Street
Morland Ks 67650

ATTN: Leon Pfeifer

5-9s-25w Graham Ks

Johnson #2

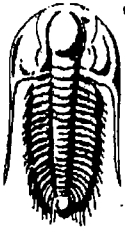
Start Date: 2004.03.16 @ 10:40:51

End Date: 2004.03.16 @ 14:24:50

Job Ticket #: 19846 DST #: 2

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



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TESTING, INC.**

DRILL STEM TEST REPORT

RL Investments LLC
217 St Peter Street
Morland Ks 67650
ATTN: Leon Pfeifer

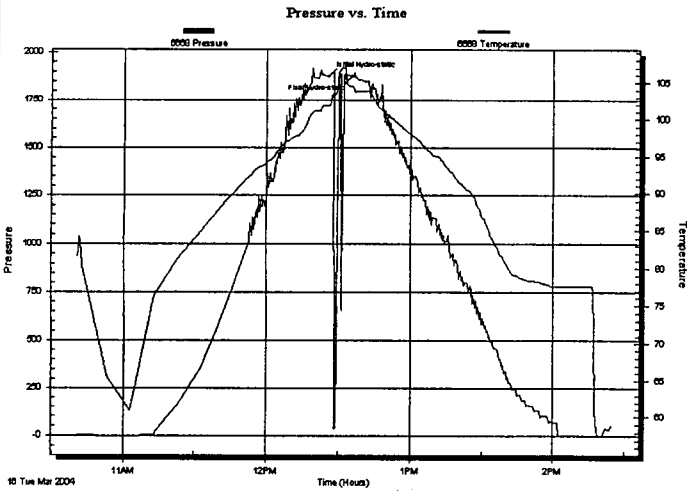
Johnson #2
5-9s-25w Graham Ks
Job Ticket: 19846 **DST#: 2**
Test Start: 2004.03.16 @ 10:40:51

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:30:00
Time Test Ended: 14:24:50
Interval: **3848.00 ft (KB) To 3870.00 ft (KB) (TVD)**
Total Depth: 3870.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 28
Reference Elevations: 2551.00 ft (KB)
2546.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
Press@RunDepth: psig @ 3849.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.03.16 End Date: 2004.03.16 Last Calib.: 2004.03.16
Start Time: 10:40:51 End Time: 14:24:50 Time On Btm: 2004.03.16 @ 12:25:50
Time Off Btm: 2004.03.16 @ 12:35:20

TEST COMMENT: IFP-packer failure set packers twice



PRESSURE SUMMARY

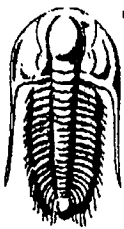
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.93	101.88	Initial Hydro-static
10	1876.98	104.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
320.00	mud packer failure	1.57

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19846

DST#: 2

ATTN: Leon Pfeifer

Test Start: 2004.03.16 @ 10:40:51

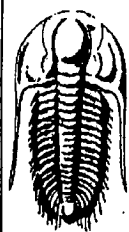
Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 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: 495.00 ft	Diameter: 2.25 inches	Volume: 2.43 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.51 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3848.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	43.02 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			3828.00	
Shut In Tool	5.00			3833.00	
Hydraulic tool	5.00			3838.00	
Packer	5.00			3843.00	21.00 Bottom Of Top Packer
Packer	5.00			3848.00	
Stubb	1.00			3849.00	
Recorder	0.01	6668	Inside	3849.01	
Perforations	18.00			3867.01	
Recorder	0.01	11085	Outside	3867.02	
Bullnose	3.00			3870.02	22.02 Bottom Packers & Anchor
Total Tool Length:	43.02				

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DRILL STEM TEST REPORT

FLUID SUMMARY

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19846

DST#: 2

ATTN: Leon Pfeifer

Test Start: 2004.03.16 @ 10:40:51

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.90 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
320.00	mud packer failure	1.574

Total Length: 320.00 ft

Total Volume: 1.574 bbl

Num Fluid Samples: 0

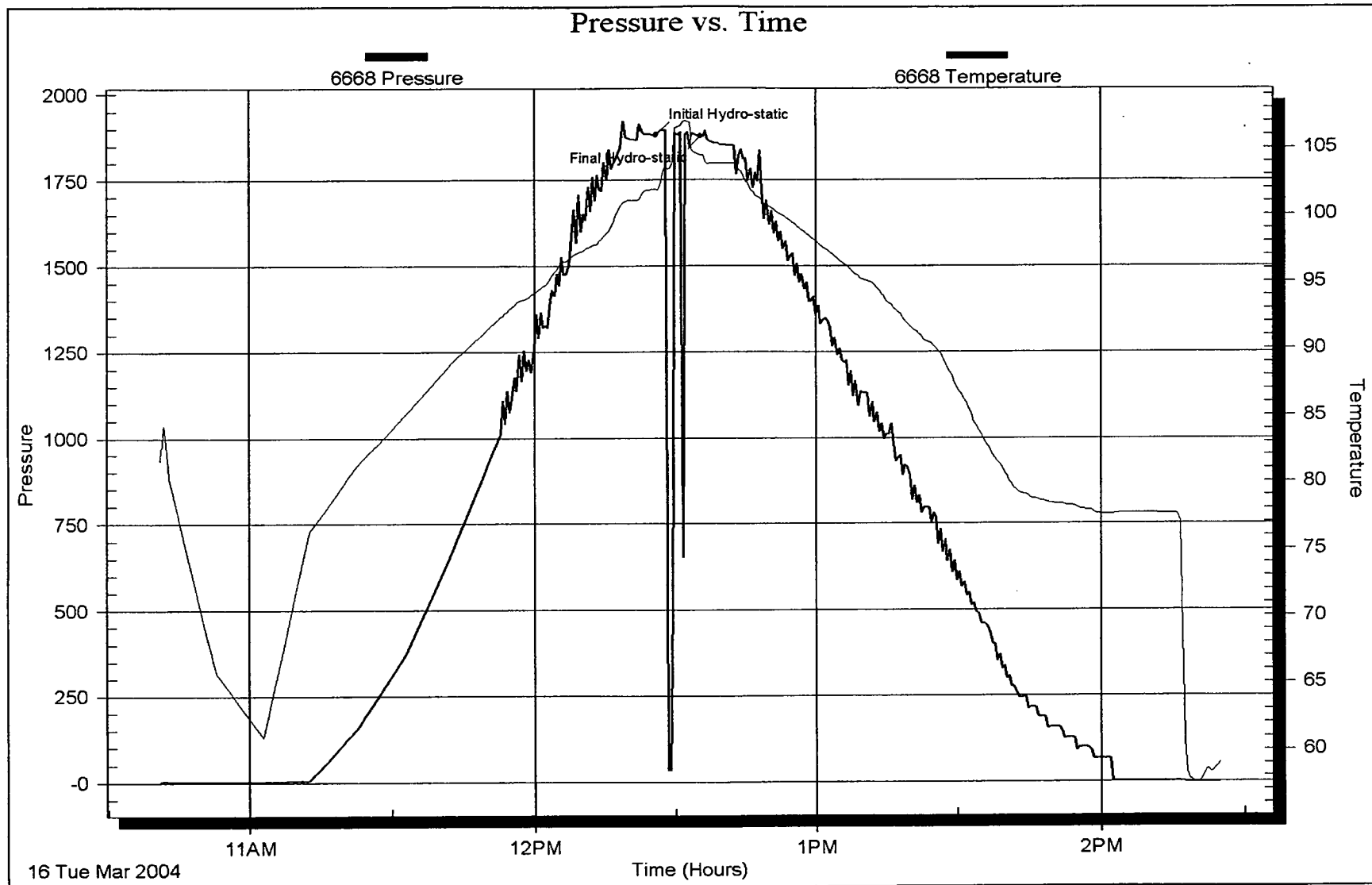
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

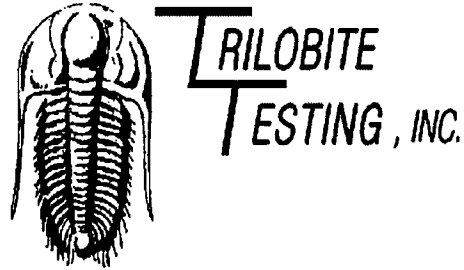


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DRILL STEM TEST REPORT

Prepared For: **RL Investments LLC**

217 St Peter Street
Morland Ks 67650

ATTN: Leon Pfeifer

5-9s-25w Graham Ks

Johnson #2

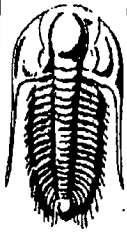
Start Date: 2004.03.16 @ 14:35:03

End Date: 2004.03.16 @ 19:39:02

Job Ticket #: 19847 DST #: 3

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

RL Investments LLC
217 St Peter Street
Morland Ks 67650
ATTN: Leon Pfeifer

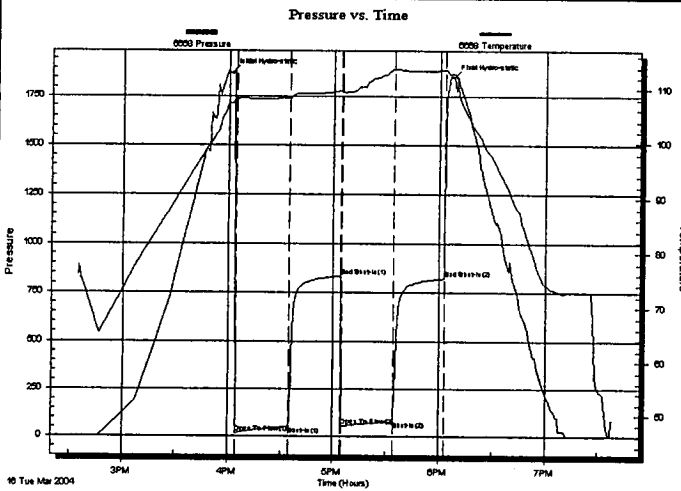
Johnson #2
5-9s-25w Graham Ks
Job Ticket: 19847 **DST#: 3**
Test Start: 2004.03.16 @ 14:35:03

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:04:02
Time Test Ended: 19:39:02
Interval: **3831.00 ft (KB) To 3870.00 ft (KB) (TVD)**
Total Depth: 3870.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 28
Reference Elevations: 2551.00 ft (KB)
2546.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
Press@RunDepth: 78.07 psig @ 3839.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.03.16 End Date: 2004.03.16 Last Calib.: 2004.03.16
Start Time: 14:35:03 End Time: 19:39:02 Time On Btm: 2004.03.16 @ 16:01:32
Time Off Btm: 2004.03.16 @ 18:07:32

TEST COMMENT: IFP-w k bl thru-out 1/4" to 1" bl
FFP-w k bl thru-out 1/4" bl
Times 30-30-30-30
aprox 5' of fill on bottom of hole



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.71	107.31	Initial Hydro-static
3	16.45	108.04	Open To Flow (1)
33	50.88	108.35	Shut-In(1)
63	833.20	109.72	End Shut-In(1)
63	54.23	109.46	Open To Flow (2)
93	78.07	113.61	Shut-In(2)
122	820.34	113.53	End Shut-In(2)
126	1851.54	112.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mud w/show of oil	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19847

DST#: 3

ATTN: Leon Pfeifer

Test Start: 2004.03.16 @ 14:35:03

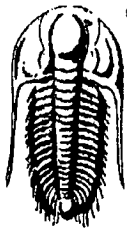
Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.80 inches	Volume: 46.64 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: 495.00 ft	Diameter: 2.25 inches	Volume: 2.43 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.07 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3831.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.02 ft			
Tool Length:	60.02 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			3811.00	
Shut In Tool	5.00			3816.00	
Hydraulic tool	5.00			3821.00	
Packer	5.00			3826.00	21.00 Bottom Of Top Packer
Packer	5.00			3831.00	
Stubb	1.00			3832.00	
Perforations	7.00			3839.00	
Recorder	0.01	6668	Inside	3839.01	
Perforations	28.00			3867.01	
Recorder	0.01	11085	Outside	3867.02	
Bullnose	3.00			3870.02	39.02 Bottom Packers & Anchor
Total Tool Length:	60.02				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19847

DST#: 3

ATTN: Leon Pfeifer

Test Start: 2004.03.16 @ 14:35:03

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.90 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mud w/show of oil	0.639

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

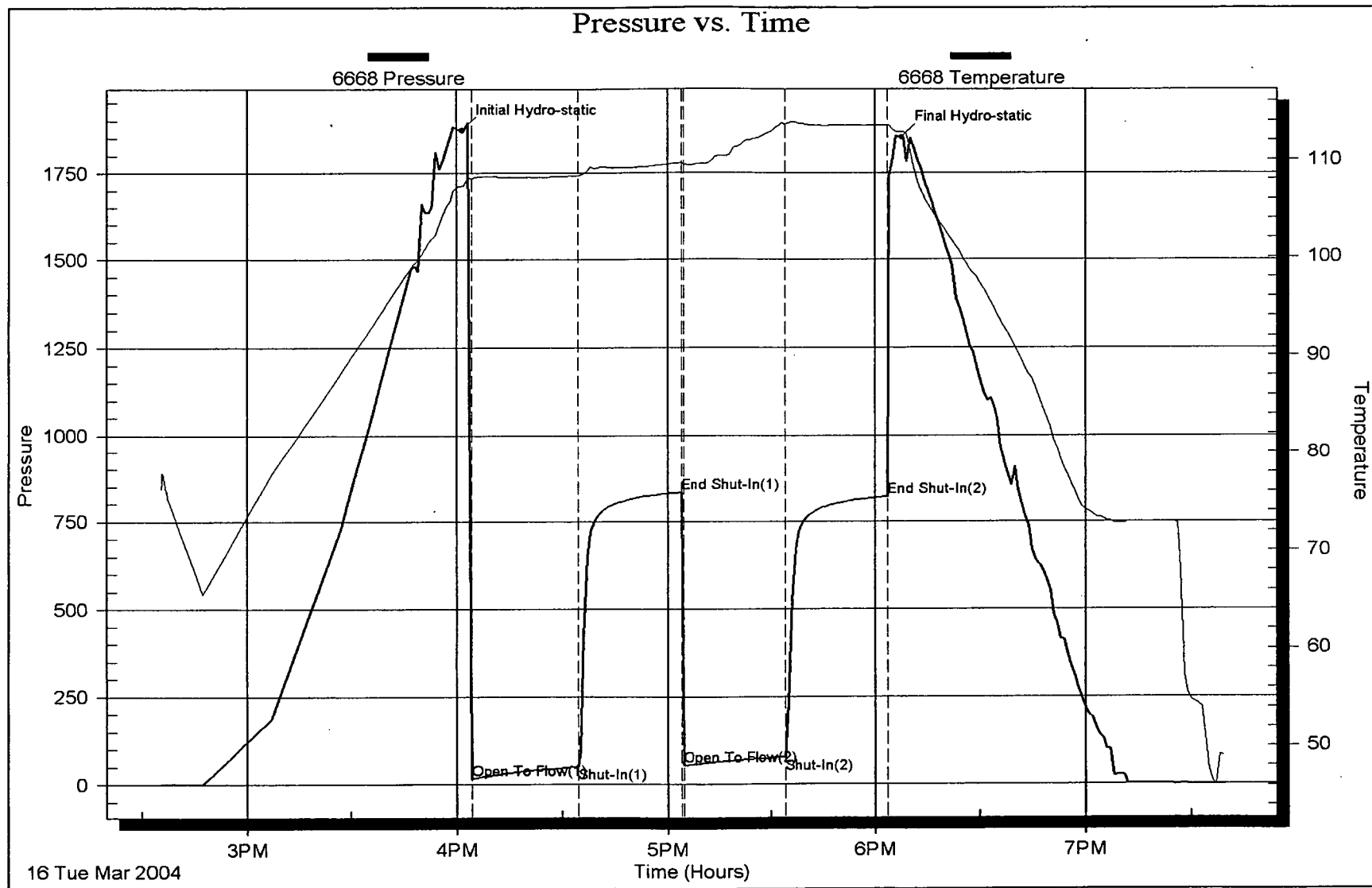
Num Gas Bombs: 0

Serial #:

Laboratory Name:

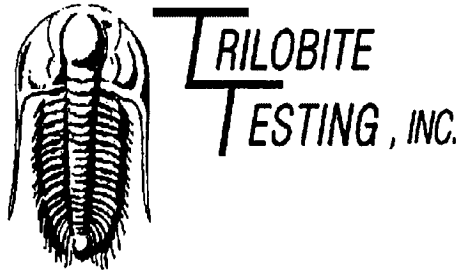
Laboratory Location:

Recovery Comments:



16 Tue Mar 2004

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DRILL STEM TEST REPORT

Prepared For: **RL Investments LLC**

217 St Peter Street
Morland Ks 67650

ATTN: Leon Pfeifer

5-9s-25w Graham Ks

Johnson #2

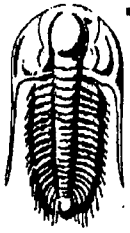
Start Date: 2004.03.17 @ 10:21:23

End Date: 2004.03.17 @ 17:35:22

Job Ticket #: 19848 DST #: 4

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19848

DST#: 4

ATTN: Leon Pfeifer

Test Start: 2004.03.17 @ 10:21:23

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:52

Time Test Ended: 17:35:22

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3920.00 ft (KB) To 3952.00 ft (KB) (TVD)**

Total Depth: 3952.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2551.00 ft (KB)

2546.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668 Inside

Press@RunDepth: 508.11 psig @ 3921.01 ft (KB)

Start Date: 2004.03.17

End Date:

2004.03.17

Capacity: 7000.00 psig

Last Calib.: 2004.03.17

Start Time: 10:21:23

End Time:

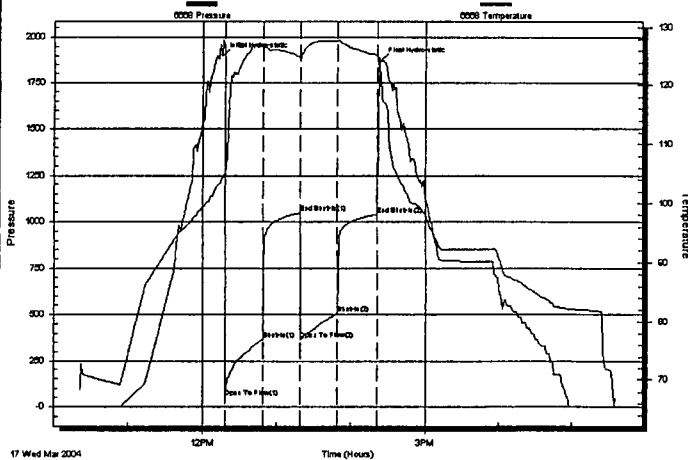
17:35:22

Time On Btm: 2004.03.17 @ 12:16:22

Time Off Btm: 2004.03.17 @ 14:23:52

TEST COMMENT: IFP-w k to strg in 4 min
FFP-w k to strg in 23 min
Times 30-30-30-30
ISIP-no bl FSIP-6"bl

Pressure vs. Time



PRESSURE SUMMARY

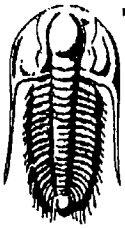
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.89	104.46	Initial Hydro-static
3	52.79	105.16	Open To Flow (1)
33	368.17	127.02	Shut-In(1)
63	1045.06	124.96	End Shut-In(1)
63	366.03	124.52	Open To Flow (2)
93	508.11	127.77	Shut-In(2)
125	1037.67	125.28	End Shut-In(2)
128	1871.25	122.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	SOCW 1%oil 99%w ater	4.19
124.00	GO&MCW 22gas 20oil 50w ater 8mud	1.74
310.00	GWCMO 20gas 50oil 20w ater 10mud	4.35
106.00	GWCMO 30gas 30oil 20w ater 20mud	1.49

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19848

DST#: 4

ATTN: Leon Pfeifer

Test Start: 2004.03.17 @ 10:21:23

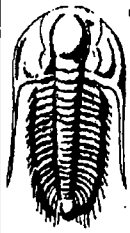
Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 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: 495.00 ft	Diameter: 2.25 inches	Volume: 2.43 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 50.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3920.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.02 ft			
Tool Length:	53.02 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			3900.00	
Shut In Tool	5.00			3905.00	
Hydraulic tool	5.00			3910.00	
Packer	5.00			3915.00	21.00 Bottom Of Top Packer
Packer	5.00			3920.00	
Stubb	1.00			3921.00	
Recorder	0.01	6668	Inside	3921.01	
Perforations	28.00			3949.01	
Recorder	0.01	11085	Outside	3949.02	
Bullnose	3.00			3952.02	32.02 Bottom Packers & Anchor
Total Tool Length:	53.02				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19848

DST#: 4

ATTN: Leon Pfeifer

Test Start: 2004.03.17 @ 10:21:23

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:

41000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
620.00	SOCW 1%oil 99%w ater	4.188
124.00	GO&MCW 22gas20oil50w ater8mud	1.739
310.00	GWCMO 20gas50oil20w ater10mud	4.348
106.00	GWCMO 30gas30oil20w ater20mud	1.487

Total Length: 1160.00 ft Total Volume: 11.762 bbl

Num Fluid Samples: 0

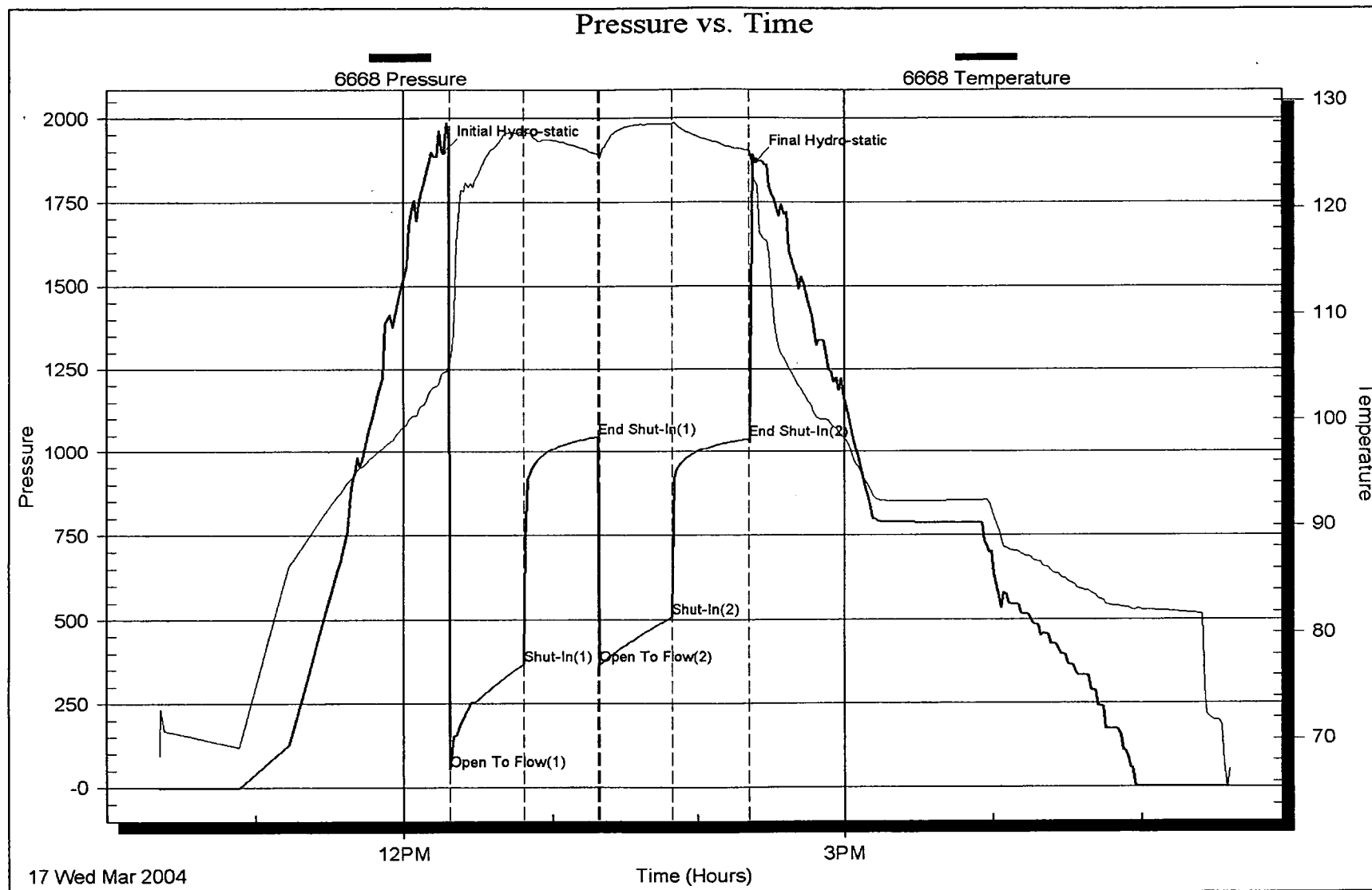
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

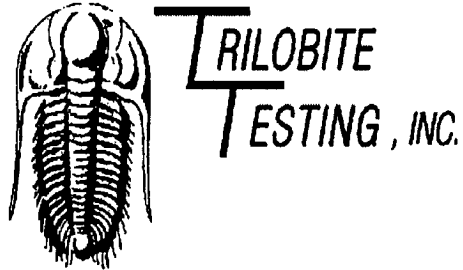
Recovery Comments: RW.16@82F



17 Wed Mar 2004

Time (Hours)

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DRILL STEM TEST REPORT

Prepared For: **RL Investments LLC**

217 St Peter Street
Morland Ks 67650

ATTN: Leon Pfeifer

5-9s-25w Graham Ks

Johnson #2

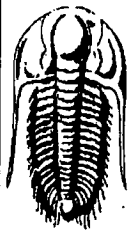
Start Date: 2004.03.18 @ 02:45:58

End Date: 2004.03.18 @ 08:28:27

Job Ticket #: 19849 DST #: 5

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

ATTN: Leon Pfeifer

Job Ticket: 19849

DST#: 5

Test Start: 2004.03.18 @ 02:45:58

GENERAL INFORMATION:

Formation: **LKC "J"**

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

Time Tool Opened: 04:37:27

Time Test Ended: 08:28:27

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3974.00 ft (KB) To 4001.00 ft (KB) (TVD)**

Total Depth: **4001.00 ft (KB) (TVD)**

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

Reference Elevations: **2551.00 ft (KB)**

2546.00 ft (CF)

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

Serial #: 6668 Inside

Press@RunDepth: **14.08 psig @ 3975.01 ft (KB)**

Start Date: **2004.03.18**

Start Time: **02:45:58**

End Date: **2004.03.18**

End Date:

End Time:

08:28:27

Capacity: **7000.00 psig**

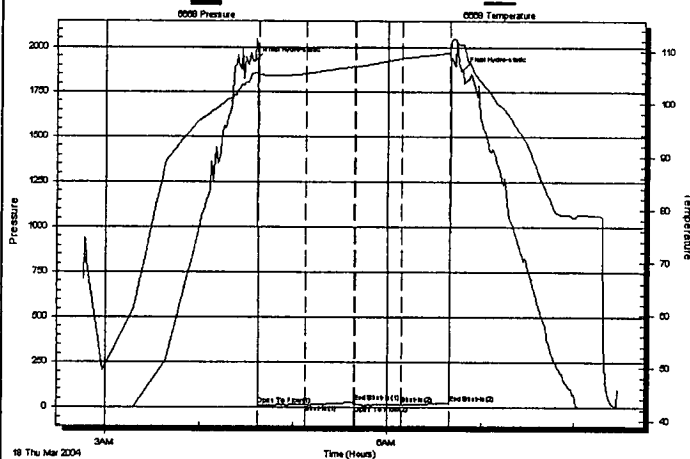
Last Calib.: **2004.03.18**

Time On Btm: **2004.03.18 @ 04:34:57**

Time Off Btm: **2004.03.18 @ 06:47:27**

TEST COMMENT: IFF-wk surface bl died in 20 min
FFP-no bl
Times 30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

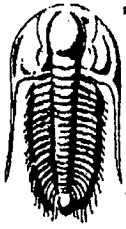
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.85	105.81	Initial Hydro-static
3	12.72	105.53	Open To Flow (1)
33	14.34	105.68	Shut-In(1)
64	27.79	107.08	End Shut-In(1)
64	13.94	107.10	Open To Flow (2)
94	14.08	108.65	Shut-In(2)
125	23.12	109.74	End Shut-In(2)
133	1870.59	111.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w/show of oil in tool	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19849

DST#: 5

ATTN: Leon Pfeifer

Test Start: 2004.03.18 @ 02:45:58

Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 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: 495.00 ft	Diameter: 2.25 inches	Volume: 2.43 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3974.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.02 ft			
Tool Length:	48.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

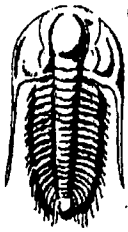
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Packer	5.00			3969.00	21.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.01	6668	Inside	3975.01	
Perforations	23.00			3998.01	
Recorder	0.01	11085	Outside	3998.02	
Bullnose	3.00			4001.02	27.02 Bottom Packers & Anchor
Total Tool Length:	48.02				

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DRILL STEM TEST REPORT

FLUID SUMMARY

RL Investments LLC

Johnson #2

217 St Peter Street
Morland Ks 67650

5-9s-25w Graham Ks

Job Ticket: 19849

DST#: 5

ATTN: Leon Pfeifer

Test Start: 2004.03.18 @ 02:45:58

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:

bbf

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	mud w/show of oil in tool	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

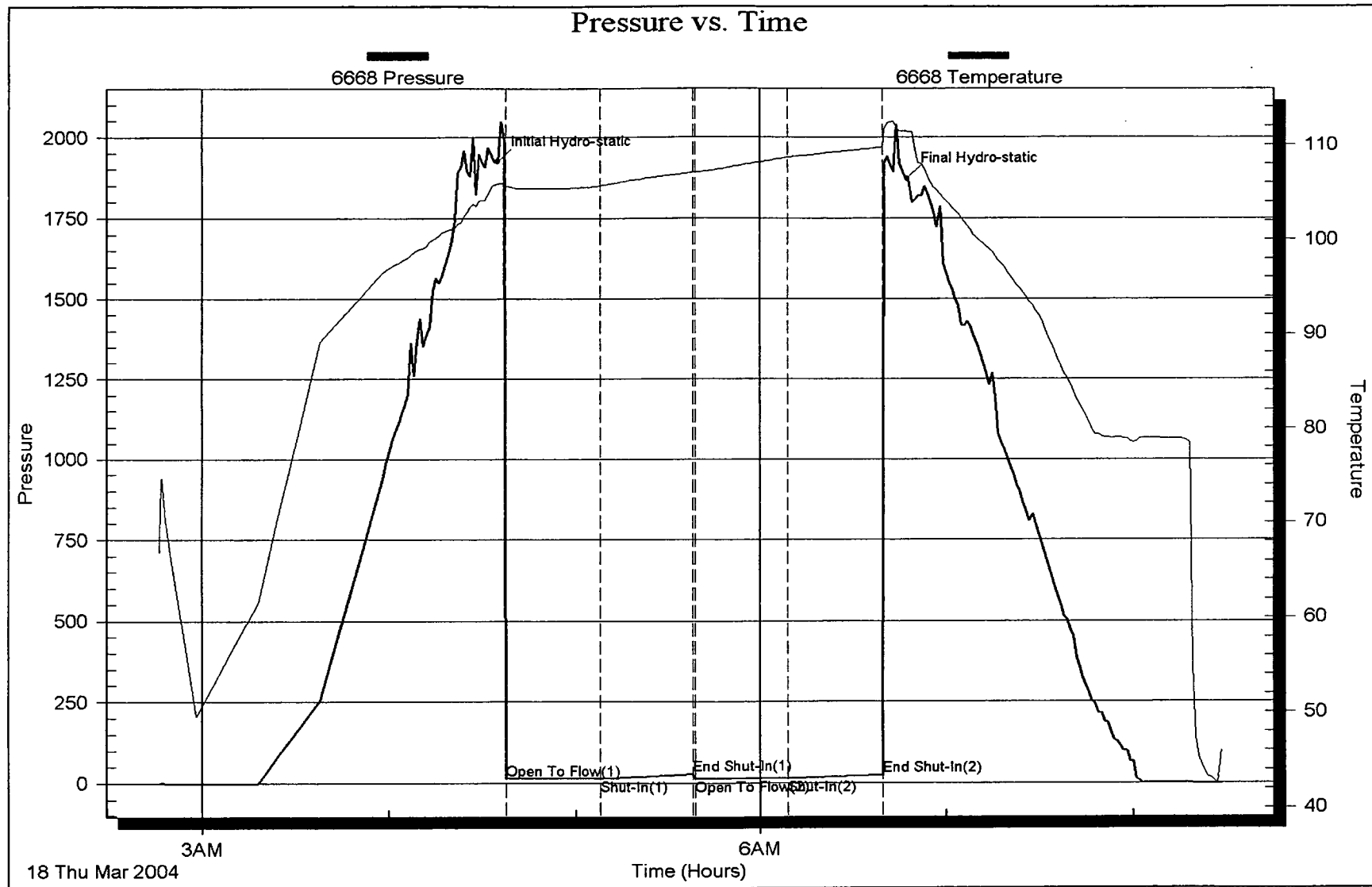
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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