

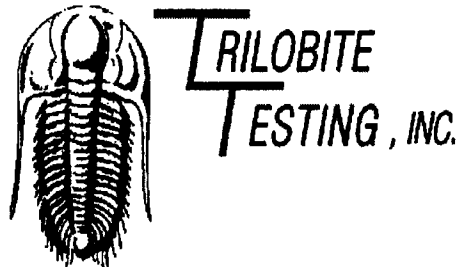
15-047-21484

14-26s-17w

RECEIVED

JAN 07 2004

KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Ritche Exploration, Inc.**

P.O.Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

14-26S-17W

Lightcap #1

Start Date: 2003.10.15 @ 14:50:15

End Date: 2003.10.15 @ 21:08:28

Job Ticket #: 17119 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritche Exploration, Inc.

P.O. Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

Lightcap #1

14-26S-17W

Job Ticket: 17119

DST#: 1

Test Start: 2003.10.15 @ 14:50:15

GENERAL INFORMATION:

Formation: **Chase/Herr./Winf./To**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:17:43

Time Test Ended: 21:08:28

Interval: **2285.00 ft (KB) To 2449.00 ft (KB) (TVD)**

Total Depth: **2449.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Reference Elevations: **2123.00 ft (KB)**

2118.00 ft (CF)

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

**RECEIVED
JAN 07 2004
KCC WICHITA**

Serial #: 2346

Inside

Press@RunDepth: **131.94 psig @ 2287.00 ft (KB)**

Start Date: **2003.10.15**

End Date:

2003.10.15

Capacity: **7000.00 psig**

Last Calib.: **2003.10.15**

Start Time: **14:50:15**

End Time:

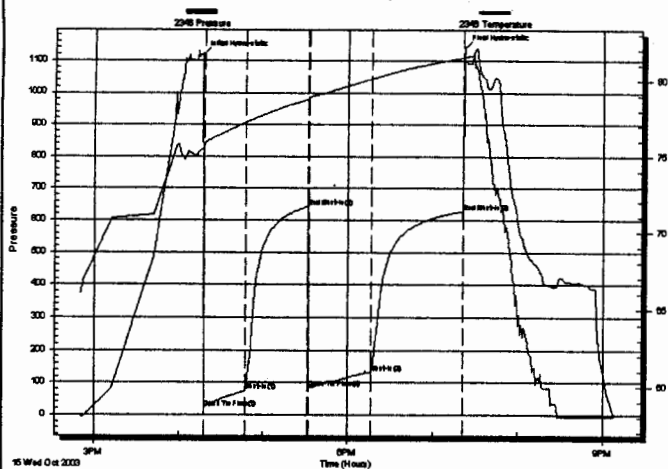
21:08:28

Time On Btm: **2003.10.15 @ 16:16:58**

Time Off Btm: **2003.10.15 @ 19:22:13**

TEST COMMENT: F: Fair blow b.o.b in 13-1/2 mins.
IS: Bled down for 5 mins. slight surface blow back.
FF: Weak blow built to 11" in H₂O bucket.
FS: Bled down for 5 mins. slight surface blow back.

Pressure vs. Time



PRESSURE SUMMARY

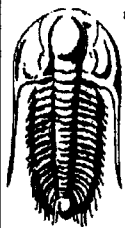
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1118.42	75.49	Initial Hydro-static
1	20.21	75.72	Open To Flow (1)
31	73.64	77.29	Shut-In (1)
75	642.19	78.79	End Shut-In (1)
76	81.93	78.94	Open To Flow (2)
120	131.94	80.16	Shut-In (2)
185	628.23	81.53	End Shut-In (2)
186	1138.61	81.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1100' of gip	0.00
250.00	SGCM 10% gas 90% mud	1.23

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17119

DST#: 1

ATTN: Gary Gensch

Test Start: 2003.10.15 @ 14:50:15

Tool Information

Drill Pipe:	Length: 1802.53 ft	Diameter: 3.80 inches	Volume: 25.28 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: 478.47 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	27.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	2285.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	164.00 ft			
Tool Length:	188.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

RECEIVED
JAN 07 2004
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2262.00	
Shut In Tool	5.00			2267.00	
Hydraulic tool	5.00			2272.00	
Safety Joint	3.00			2275.00	
Packer	5.00			2280.00	24.00 Bottom Of Top Packer
Packer	5.00			2285.00	
Stubb	2.00			2287.00	
Recorder	0.00	2346	Inside	2287.00	
Anchor	35.00			2322.00	
Recorder	0.00	10991	Outside	2322.00	
Blank Spacing	124.00			2446.00	
Bullnose	3.00			2449.00	164.00 Bottom Packers & Anchor

Total Tool Length: 188.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188

14-26S-17W

Wichita, KS 67278-783188

Job Ticket: 17119

DST#: 1

ATTN: Gary Gensch

Test Start: 2003.10.15 @ 14:50:15

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1100' of gip	0.000
250.00	SGCM 10% gas 90% mud	1.229

Total Length: 250.00 ft

Total Volume: 1.229 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

RECEIVED
JAN 07 2004
KCC WICHITA

Serial #: 2346

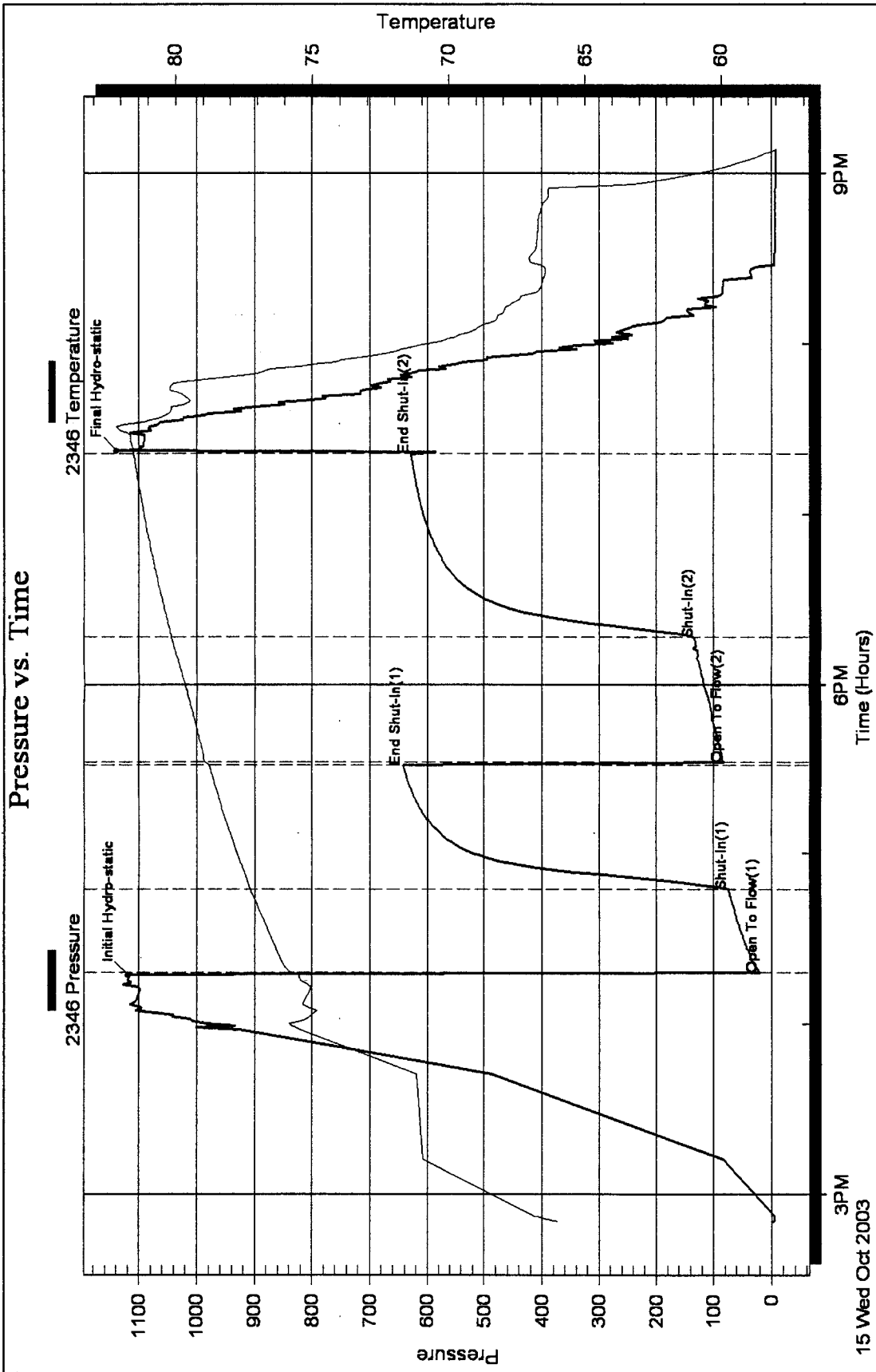
Inside

Riche Exploration, Inc.

14--26S-17W

DST Test Number: 1

Pressure vs. Time

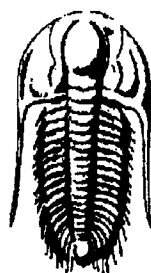


Trilobite Testing, Inc

Ref. No: 17119

RECEIVED
JAN 07 2004
KCC WICHITA

Printed: 2003.10.29 @ 10:58:32 Page 5



TRILOBITE
TESTING, INC.

RECEIVED
JAN 07 2004
KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **Ritche Exploration, Inc.**

P.O.Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

14-26S-17W

Lightcap #1

Start Date: 2003.10.17 @ 00:34:50

End Date: 2003.10.17 @ 06:03:20

Job Ticket #: 17120 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritche Exploration, Inc.

P.O.Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

Lightcap #1

14-26S-17W

Job Ticket: 17120

DST#: 2

Test Start: 2003.10.17 @ 00:34:50

GENERAL INFORMATION:

Formation: **Cottonwood**

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

Time Tool Opened: 02:18:05

Time Test Ended: 06:03:20

Interval: **2790.00 ft (KB) To 2840.00 ft (KB) (TVD)**

Total Depth: **2840.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Reference Elevations: **2123.00 ft (KB)**

2118.00 ft (CF)

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

RECEIVED

JAN 07 2004

KCC WICHITA

Serial #: 2346

Inside

Press@RunDepth: **86.88 psig @ 2807.00 ft (KB)**

Start Date: **2003.10.17**

End Date:

2003.10.17

Start Time: **00:34:52**

End Time:

06:03:20

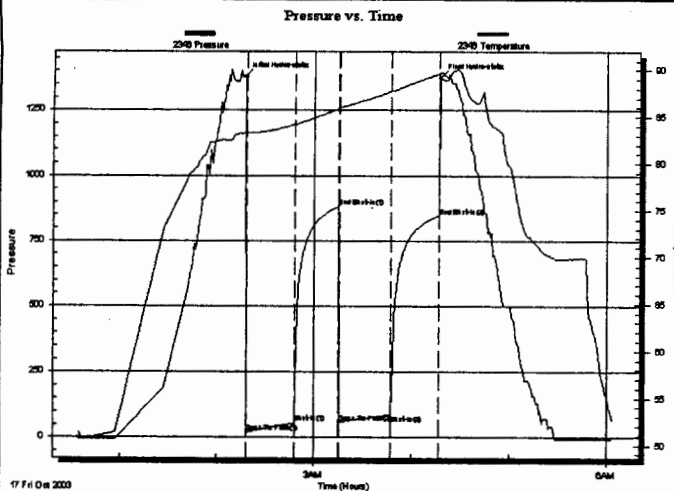
Capacity: **7000.00 psig**

Last Calib.: **2003.10.17**

Time On Btm: **2003.10.17 @ 02:16:50**

Time Off Btm: **2003.10.17 @ 04:17:20**

TEST COMMENT: F:Weak blow built to 2-1/2" in H2O bucket.
IS:Bled down for 5 mins.no blow back.
FF:Weak surface blow built to 1" in H2O bucket.
FS:Bled down for 2 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1379.30	83.24	Initial Hydro-static
2	19.03	83.36	Open To Flow (1)
32	54.81	84.20	Shut-In (1)
59	879.72	85.86	End Shut-In (1)
59	57.90	86.04	Open To Flow (2)
91	86.88	87.75	Shut-In (2)
120	846.39	89.62	End Shut-In (2)
121	1374.53	89.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 40% water 60% mud	0.59

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17120

DST#: 2

ATTN: Gary Gensch

Test Start: 2003.10.17 @ 00:34:50

Tool Information

Drill Pipe:	Length: 2303.53 ft	Diameter: 3.80 inches	Volume: 32.31 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: 478.47 ft	Diameter: 2.25 inches	Volume: 2.35 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	34.66 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	2790.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

RECEIVED
JAN 07 2004
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2767.00	
Shut In Tool	5.00			2772.00	
Hydraulic tool	5.00			2777.00	
Safety Joint	3.00			2780.00	
Packer	5.00			2785.00	24.00 Bottom Of Top Packer
Packer	5.00			2790.00	
Stubb	2.00			2792.00	
Anchor	15.00			2807.00	
Recorder	0.00	2346	Inside	2807.00	
Blank Spacing	30.00			2837.00	
Recorder	0.00	10991	Outside	2837.00	
Bullnose	3.00			2840.00	50.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17120

DST#: 2

ATTN: Gary Gensch

Test Start: 2003.10.17 @ 00:34:50

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: 90000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WCM 40% water 60% mud	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

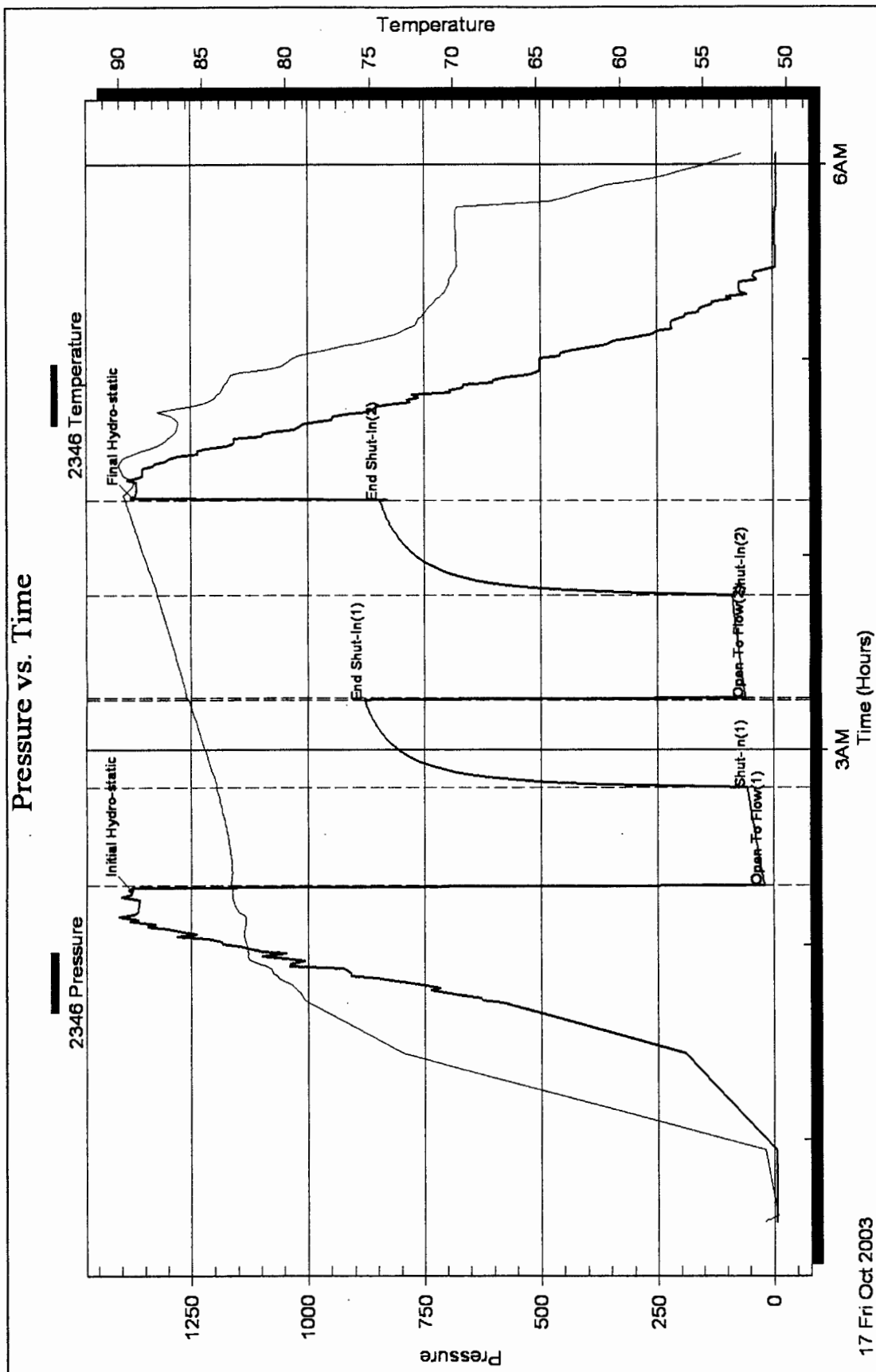
Laboratory Name:

Laboratory Location:

Recovery Comments:

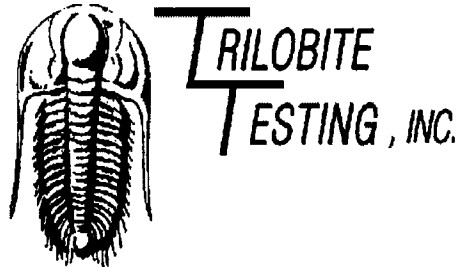
RECEIVED
JAN 07 2004
KCC WICHITA

Pressure vs. Time



RECEIVED
JAN 07 2004
KCC WICHITA

RECEIVED
JAN 07 2004
KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Ritche Exploration, Inc.**

P.O.Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

14--26S--17W

Lightcap #1

Start Date: 2003.10.21 @ 17:10:38

End Date: 2003.10.22 @ 01:40:36

Job Ticket #: 17121 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritche Exploration, Inc.

P.O. Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

Lightcap #1

14-26S-17W

Job Ticket: 17121

DST#: 3

Test Start: 2003.10.21 @ 17:10:38

GENERAL INFORMATION:

Formation: **Conglomerate/Osage**

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

Time Tool Opened: 19:16:06

Time Test Ended: 01:40:36

Interval: **4502.00 ft (KB) To 4552.00 ft (KB) (TVD)**

Total Depth: **4552.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

RECEIVED

JAN 07 2004

KCC WICHITA

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Reference Elevations: **2123.00 ft (KB)**

2118.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2346

Inside

Press@RunDepth: **91.46 psig @ 4514.00 ft (KB)**

Start Date: **2003.10.21**

End Date:

2003.10.22

Start Time: **17:10:38**

End Time:

01:40:36

Capacity: **7000.00 psig**

Last Calib.: **2003.10.22**

Time On Btm: **2003.10.21 @ 19:12:06**

Time Off Btm: **2003.10.21 @ 23:47:21**

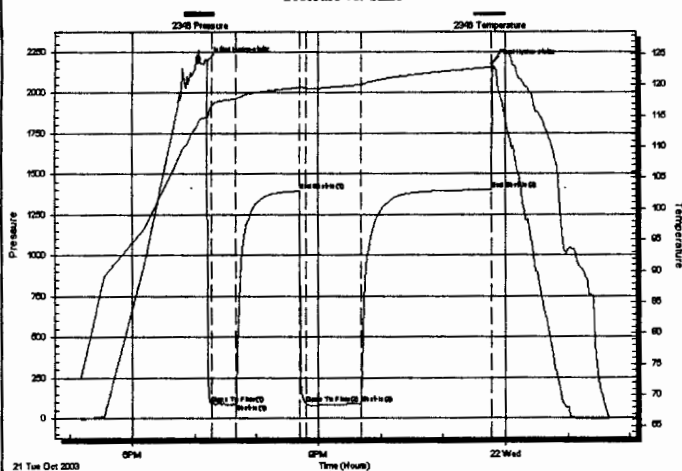
TEST COMMENT: IF: Strong blow b.o.b in 25 sec. GTS in 3-1/2 mins. gauge gas.

IS: Bled down n for 5 mins. no blow back.

FF: Strong blow b.o.b in 10 sec. gauge gas.

FS: Bled down n for 10 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.77	114.78	Initial Hydro-static
4	87.50	116.68	Open To Flow (1)
28	88.04	117.80	Shut-In(1)
91	1394.96	119.67	End Shut-In(1)
97	87.14	119.50	Open To Flow (2)
150	91.46	120.09	Shut-In(2)
275	1402.05	122.84	End Shut-In(2)
276	2179.30	123.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4373' of gip	0.00
210.00	HGCM 20% gas 80% mud	1.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	21.00	238.80
Last Gas Rate	0.50	12.50	181.46
Max. Gas Rate	0.50	25.00	265.78



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17121

DST#: 3

ATTN: Gary Gensch

Test Start: 2003.10.21 @ 17:10:38

Tool Information

Drill Pipe:	Length: 4361.48 ft	Diameter: 3.80 inches	Volume: 61.18 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: 121.52 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	61.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4502.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

RECEIVED

JAN 07 2004

KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4479.00	
Shut In Tool	5.00			4484.00	
Hydraulic tool	5.00			4489.00	
Safety Joint	3.00			4492.00	
Packer	5.00			4497.00	24.00 Bottom Of Top Packer
Packer	5.00			4502.00	
Stubb	1.00			4503.00	
Anchor	11.00			4514.00	
Recorder	0.00	2346	Inside	4514.00	
Blank Spacing	32.00			4546.00	
Anchor	3.00			4549.00	
Recorder	0.00	10991	Outside	4549.00	
Bullnose	3.00			4552.00	50.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17121

DST#: 3

ATTN: Gary Gensch

Test Start: 2003.10.21 @ 17:10:38

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4373' of gip	0.000
210.00	HGCM 20% gas 80% mud	1.839

Total Length: 210.00 ft

Total Volume: 1.839 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

RECEIVED
JAN 07 2004
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17121

DST#:3

ATTN: Gary Gensch

Test Start: 2003.10.21 @ 17:10:38

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	13	0.50	21.00	238.80
1	23	0.50	21.00	238.80
1	30	0.50	20.50	235.43
2	10	0.50	25.00	265.78
2	20	0.50	19.00	225.31
2	30	0.50	15.00	198.32
2	40	0.50	13.00	184.83
2	50	0.50	12.50	181.46
2	60	0.50	12.50	181.46

RECEIVED
JAN 07 2004
KCC WICHITA

RECEIVED
OCT 07 2004
OCC WICHITA

DST Test Number: 3

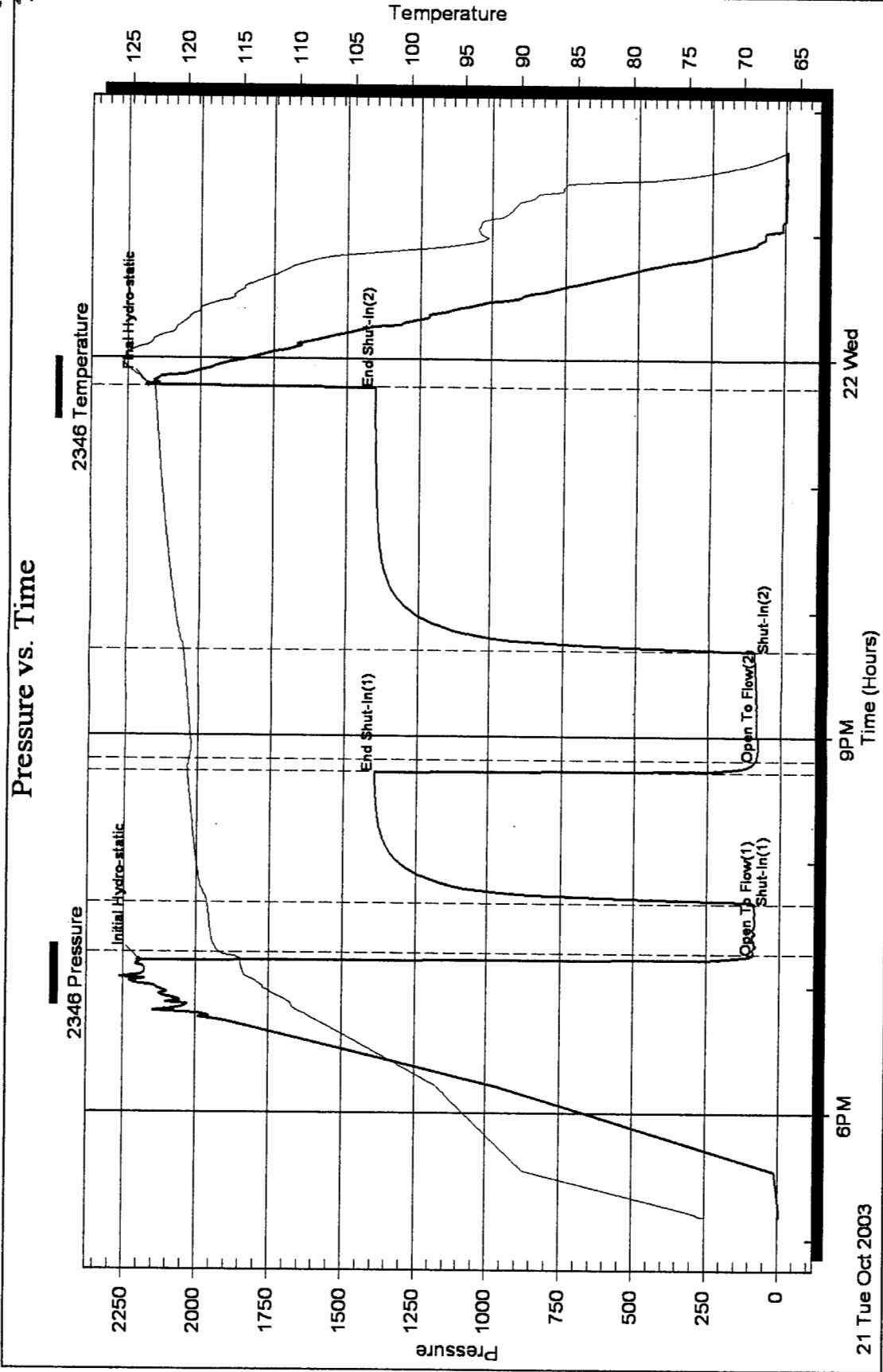
14--26S--17W

Ritche Exploration, Inc.

Inside

Serial #: 2346

Pressure vs. Time

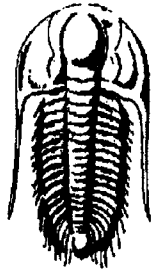


Trilobite Testing, Inc

Ref. No: 17121

Printed: 2003.10.29 @ 11:01:46 Page 6

RECEIVED
JAN 07 2004
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritche Exploration, Inc.**

P.O.Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

14--26S--17W

Lightcap #1

Start Date: 2003.10.22 @ 20:27:14

End Date: 2003.10.23 @ 02:28:59

Job Ticket #: 17122 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

Ritche Exploration, Inc.

P.O. Box 783188
Wichita, KS 67278-783188

ATTN: Gary Gensch

Lightcap #1

14-26S-17W

Job Ticket: 17122

DST#: 4

Test Start: 2003.10.22 @ 20:27:14

GENERAL INFORMATION:

Formation: **Kinderhook**

Deviated: No Whipstock:

ft (KB)

Time Tool Opened: 22:39:44

Time Test Ended: 02:28:59

RECEIVED

JAN 07 2004

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4649.00 ft (KB) To 4671.00 ft (KB) (TVD)**

Total Depth: 4671.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

KCC WICHITA

Reference Elevations: 2123.00 ft (KB)

2118.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2346

Inside

Press@RunDepth: 32.62 psig @ 4651.00 ft (KB)

Start Date: 2003.10.22

End Date:

2003.10.23

Start Time: 20:27:16

End Time:

02:28:59

Capacity: 7000.00 psig

Last Calib.: 2003.10.23

Time On Btm: 2003.10.22 @ 22:38:44

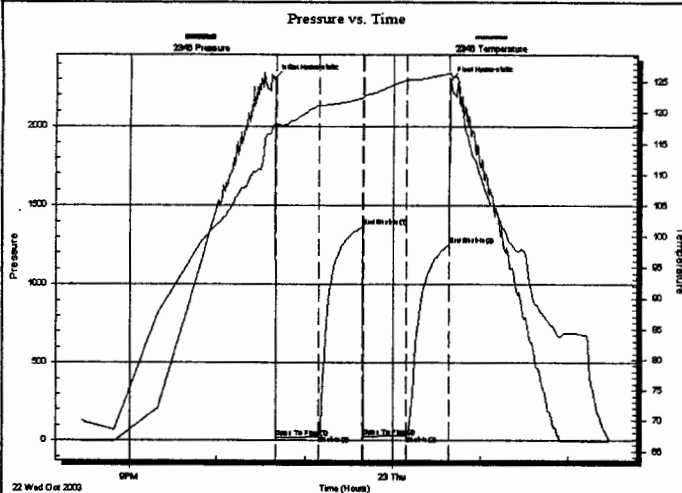
Time Off Btm: 2003.10.23 @ 00:39:29

TEST COMMENT: IF: Weak blow built to 1/4"

IS: No blow back.

FF: Weak surface blow.

FSI: No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.57	117.97	Initial Hydro-static
1	16.68	118.03	Open To Flow (1)
31	32.58	121.13	Shut-In (1)
61	1365.90	122.32	End Shut-In (1)
61	25.49	122.53	Open To Flow (2)
91	32.62	125.19	Shut-In (2)
120	1251.64	126.29	End Shut-In (2)
121	2293.58	126.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM 10% gas 90% mud	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188

14-26S-17W

Wichita, KS 67278-783188

Job Ticket: 17122

DST#: 4

ATTN: Gary Gensch

Test Start: 2003.10.22 @ 20:27:14

Tool Information

Drill Pipe:	Length: 4518.48 ft	Diameter: 3.80 inches	Volume: 63.38 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: 121.52 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	63.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4649.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

RECEIVED

JAN 07 2004

KCC WICHITA

Tool Description

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

Change Over Sub	1.00			4621.00	
Shut In Tool	5.00			4626.00	
Hydraulic tool	5.00			4631.00	
Jars	5.00			4636.00	
Safety Joint	3.00			4639.00	
Packer	5.00			4644.00	29.00 Bottom Of Top Packer
Packer	5.00			4649.00	
Stubb	2.00			4651.00	
Recorder	0.00	2346	Inside	4651.00	
Anchor	17.00			4668.00	
Recorder	0.00	10991	Outside	4668.00	
Bullnose	3.00			4671.00	22.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritche Exploration, Inc.

Lightcap #1

P.O.Box 783188
Wichita, KS 67278-783188

14-26S-17W

Job Ticket: 17122

DST#:4

ATTN: Gary Gensch

Test Start: 2003.10.22 @ 20:27:14

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GCM 10%gas 90%mud	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

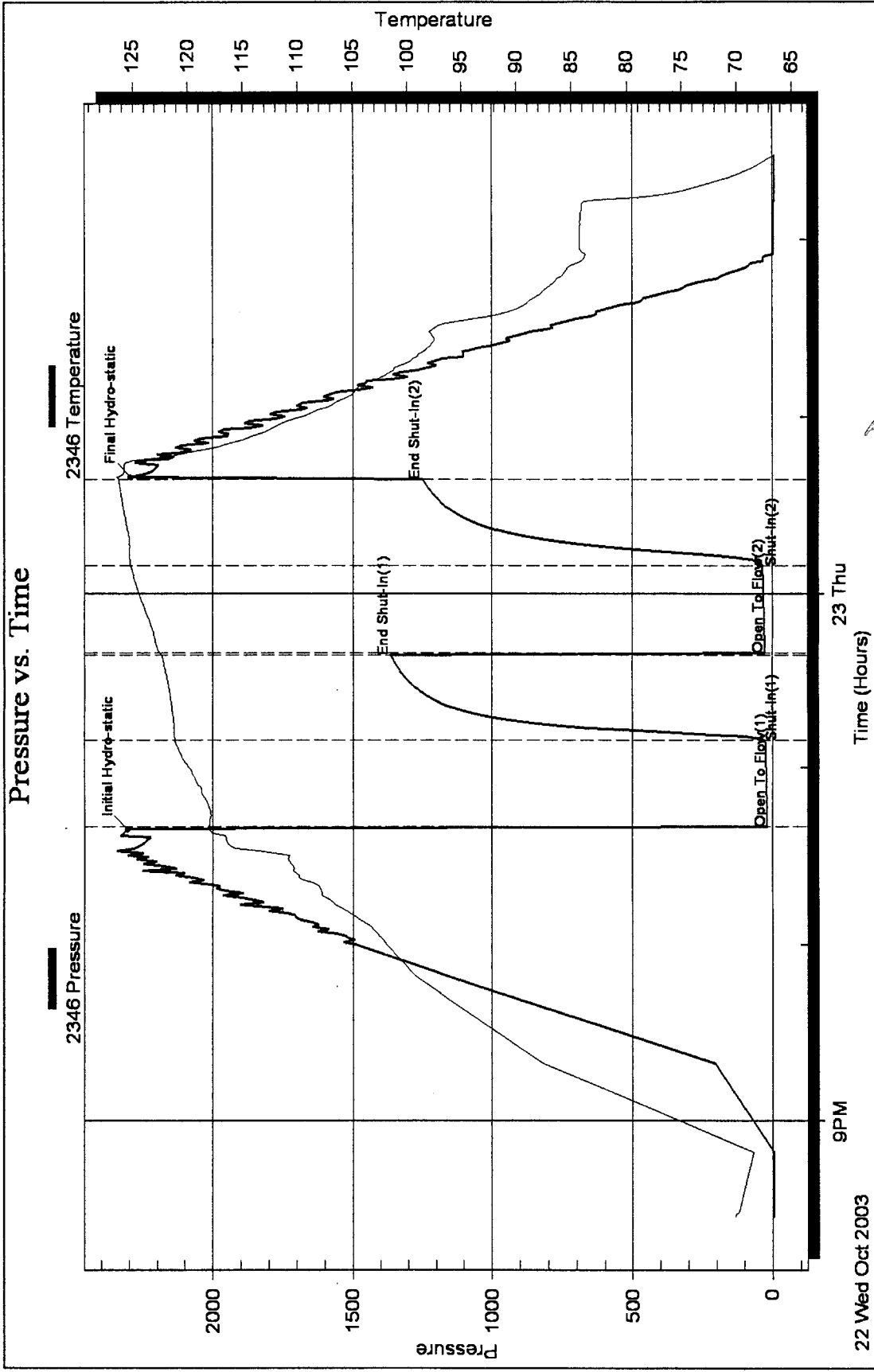
Laboratory Name:

Laboratory Location:

Recovery Comments:

RECEIVED
JAN 07 2004
KCC WICHITA

Pressure vs. Time



RECEIVED
JAN 07 2004
KCC WICHITA