

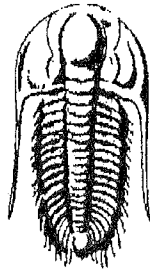
15-101-21851

17-17s-28w

KCC

FEB 08 2005

CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.20 @ 05:43:06

End Date: 2004.10.20 @ 11:39:31

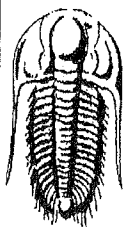
Job Ticket #: 20114 DST #: 1

Faint, illegible text, possibly a signature or stamp.

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20114

DST#: 1

Test Start: 2004.10.20 @ 05:43:06

GENERAL INFORMATION:

Formation: **L/KC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:31

Time Test Ended: 11:39:31

Interval: **3960.00 ft (KB) To 3985.00 ft (KB) (TVD)**

Total Depth: 3985.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 28.94 psig @ 3961.00 ft (KB)

Start Date: 2004.10.20

End Date:

2004.10.20

Start Time: 05:43:06

End Time:

11:39:30

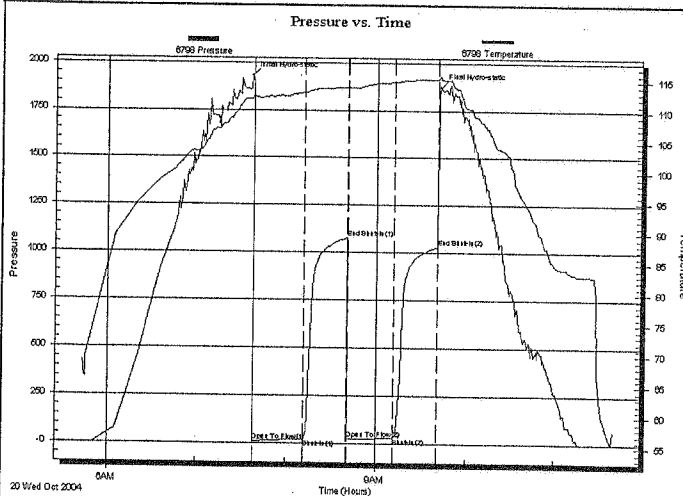
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.20 @ 07:37:01

Time Off Btm: 2004.10.20 @ 09:42:01

TEST COMMENT: IF; Weak surface blow died in 20 mins
FF; No return blow



PRESSURE SUMMARY

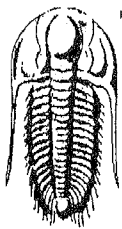
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.46	112.09	Initial Hydro-static
2	10.49	112.52	Open To Flow (1)
36	22.31	113.16	Shut-In (1)
64	1074.53	113.91	End Shut-In (1)
64	24.94	113.81	Open To Flow (2)
95	28.94	114.79	Shut-In (2)
124	1029.44	115.37	End Shut-In (2)
125	1871.23	115.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM 20%w tr 80% mud	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20114

DST#: 1

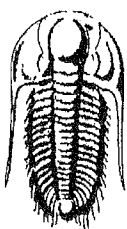
ATTN: Craig Caulk

Test Start: 2004.10.20 @ 05:43:06

Tool Information

Drill Pipe:	Length: 3750.00 ft	Diameter: 3.80 inches	Volume: 52.60 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	65000.00 lb
			Total Volume: 53.61 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3960.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3946.00	
Hydraulic tool	5.00			3951.00	
Packer	5.00			3956.00	19.00 Bottom Of Top Packer
Packer	4.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	6798	Inside	3961.00	
Perforations	18.00			3979.00	
Recorder	0.00	13309	Outside	3979.00	
Bullnose	5.00			3984.00	24.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20114

DST#: 1

ATTN: Craig Caulk

Test Start: 2004.10.20 @ 05:43:06

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: 10000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	WCM 20%w tr 80%mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

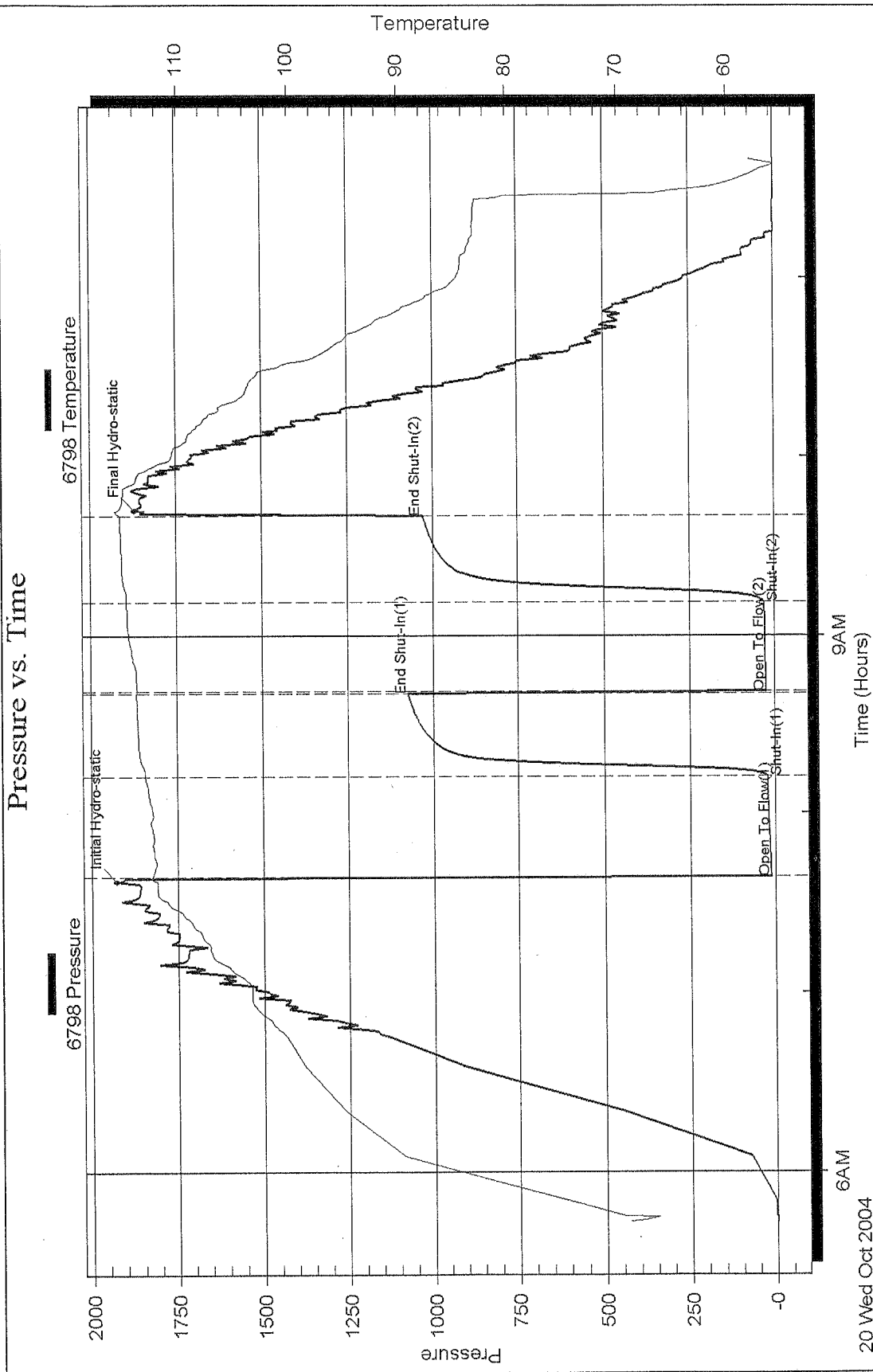
Serial #:

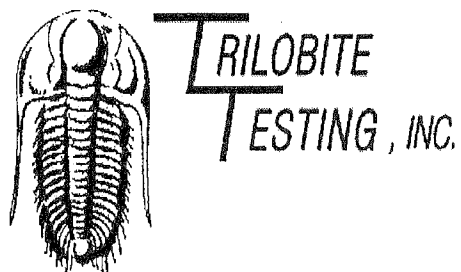
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .63 @ 70 Deg = 10,000 Chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.20 @ 22:58:17

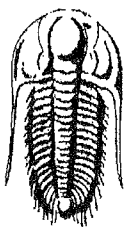
End Date: 2004.10.21 @ 06:28:02

Job Ticket #: 20115 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

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20115

DST#: 2

Test Start: 2004.10.20 @ 22:58:17

GENERAL INFORMATION:

Formation: **L/KC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:30:17

Time Test Ended: 06:28:02

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4042.00 ft (KB) To 4070.00 ft (KB) (TVD)**

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 104.83 psig @ 4043.00 ft (KB)

Start Date: 2004.10.20

End Date: 2004.10.21

Start Time: 22:58:22

End Time: 06:28:01

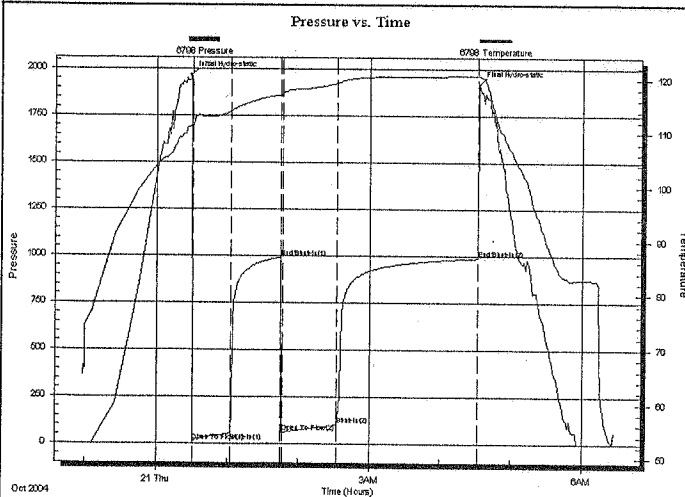
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.21 @ 00:29:02

Time Off Btm: 2004.10.21 @ 04:33:17

TEST COMMENT: IF; Weak steady 1/2" blow thru
FF; Weak surface return in 10 mins steady thru



PRESSURE SUMMARY

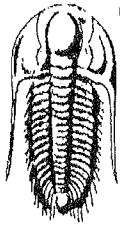
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.77	111.35	Initial Hydro-static
2	13.06	110.73	Open To Flow (1)
34	55.17	113.90	Shut-In(1)
76	992.65	117.02	End Shut-In(1)
77	61.13	117.30	Open To Flow (2)
124	104.83	119.21	Shut-In(2)
244	989.12	120.66	End Shut-In(2)
245	1917.39	120.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 80%w 20%m	0.59
60.00	WCM 30%w 70%m	0.30
15.00	15%o 15%w 70%m	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20115

DST#: 2

ATTN: Craig Caulk

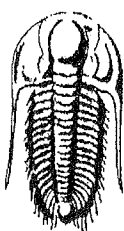
Test Start: 2004.10.20 @ 22:58:17

Tool Information

Drill Pipe:	Length: 3844.00 ft	Diameter: 3.80 inches	Volume: 53.92 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	65000.00 lb
			Total Volume: 54.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4042.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4028.00		
Hydraulic tool	5.00			4033.00		
Packer	5.00			4038.00	19.00	Bottom Of Top Packer
Packer	4.00			4042.00		
Stub	1.00			4043.00		
Recorder	0.00	6798	Inside	4043.00		
Perforations	22.00			4065.00		
Recorder	0.00	13309	Outside	4065.00		
Bullnose	5.00			4070.00	28.00	Bottom Packers & Anchor
Total Tool Length:	47.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20115

DST#: 2

ATTN: Craig Caulk

Test Start: 2004.10.20 @ 22:58:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.54 in³

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

30000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW 80%w 20%m	0.590
60.00	WCM 30%w 70%m	0.295
15.00	15%o 15%w 70%m	0.074

Total Length: 195.00 ft

Total Volume: 0.959 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .24 @ 70 Deg = 30,000 Chlorides

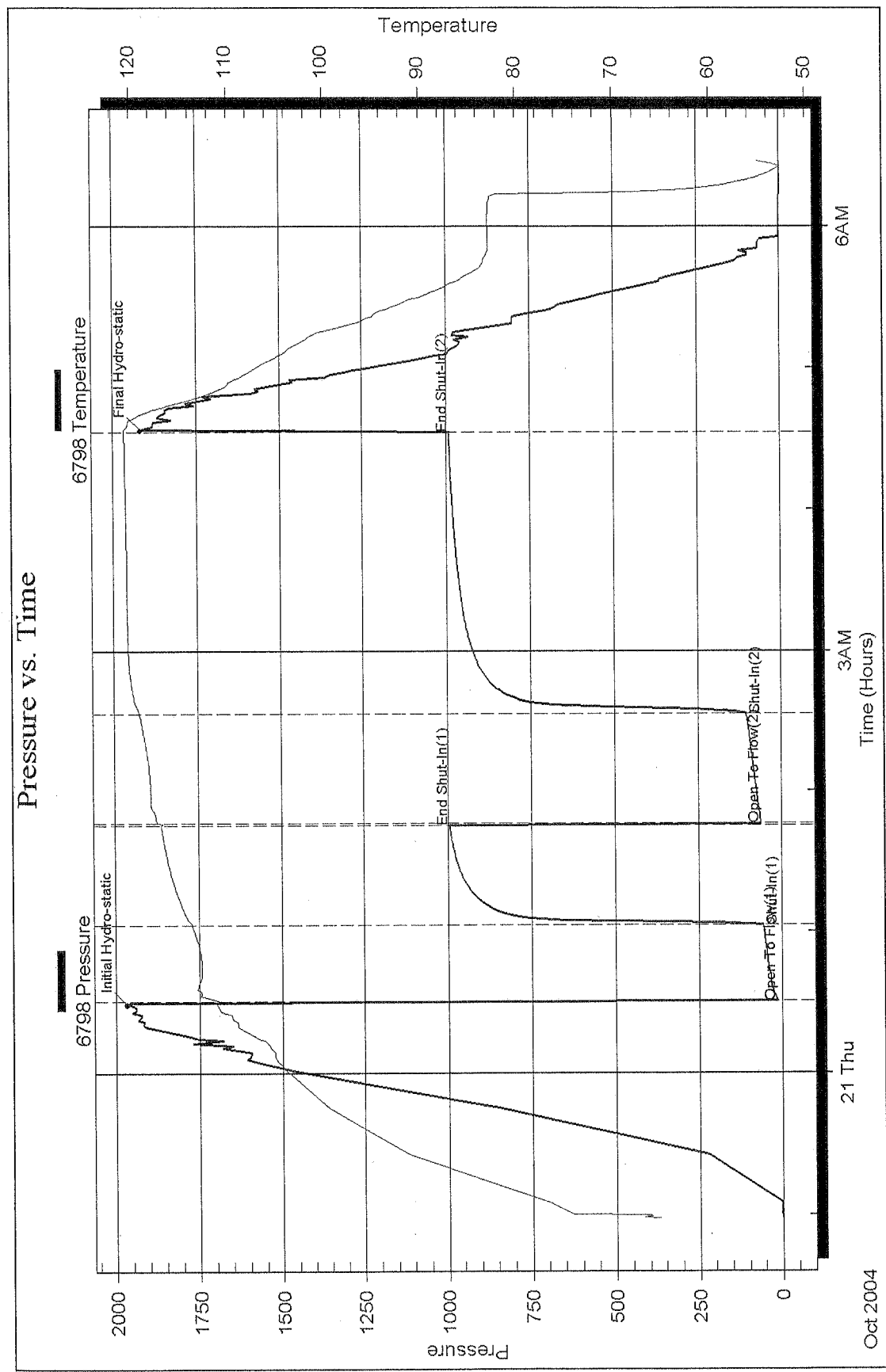
DST Test Number: 2

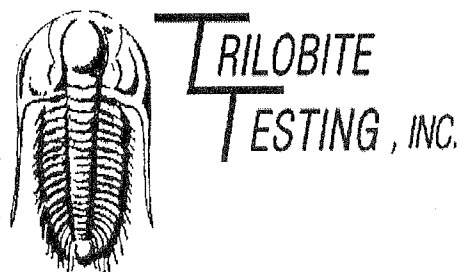
17-17S-28W Lane

Ritchie Exploration Inc.

Inside

Serial #: 6798





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.21 @ 16:26:24

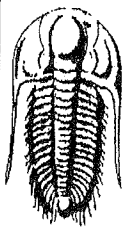
End Date: 2004.10.21 @ 21:57:24

Job Ticket #: 20116 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

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20116

DST#: 3

Test Start: 2004.10.21 @ 16:26:24

GENERAL INFORMATION:

Formation: **L/KC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:09

Time Test Ended: 21:57:24

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4126.00 ft (KB) To 4160.00 ft (KB) (TVD)**

Total Depth: 4160.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 20.87 psig @ 4127.00 ft (KB)

Start Date: 2004.10.21

End Date: 2004.10.21

Start Time: 16:26:29

End Time: 21:57:23

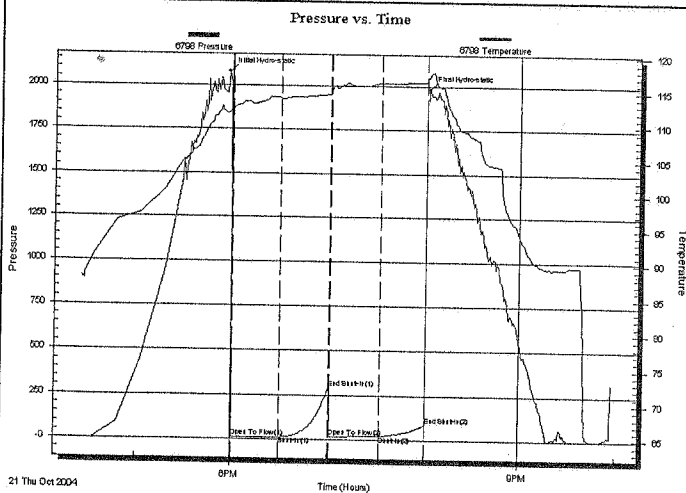
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.21 @ 17:57:54

Time Off Btm: 2004.10.21 @ 20:02:09

TEST COMMENT: IF; Weak surface blow died in 10 mins
FF; No return blow - flush tool/good surge - no blow



PRESSURE SUMMARY

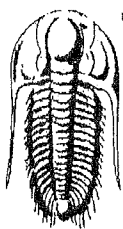
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.29	111.86	Initial Hydro-static
3	11.78	112.16	Open To Flow (1)
33	14.47	113.97	Shut-In (1)
63	292.64	114.56	End Shut-In (1)
64	14.70	114.94	Open To Flow (2)
95	20.87	116.21	Shut-In (2)
123	86.19	116.42	End Shut-In (2)
125	1982.69	117.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20116

DST#: 3

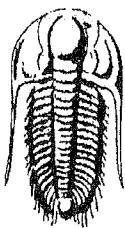
ATTN: Craig Caulk

Test Start: 2004.10.21 @ 16:26:24

Tool Information

Drill Pipe:	Length: 3907.00 ft	Diameter: 3.80 inches	Volume: 54.80 bbl	Tool Weight: 2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 55.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4126.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4112.00	
Hydraulic tool	5.00			4117.00	
Packer	5.00			4122.00	19.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6798	Inside	4127.00	
Perforations	28.00			4155.00	
Recorder	0.00	13309	Outside	4155.00	
Bullnose	5.00			4160.00	34.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20116

DST#: 3

ATTN: Craig Caulk

Test Start: 2004.10.21 @ 16:26:24

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:

bbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. Mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

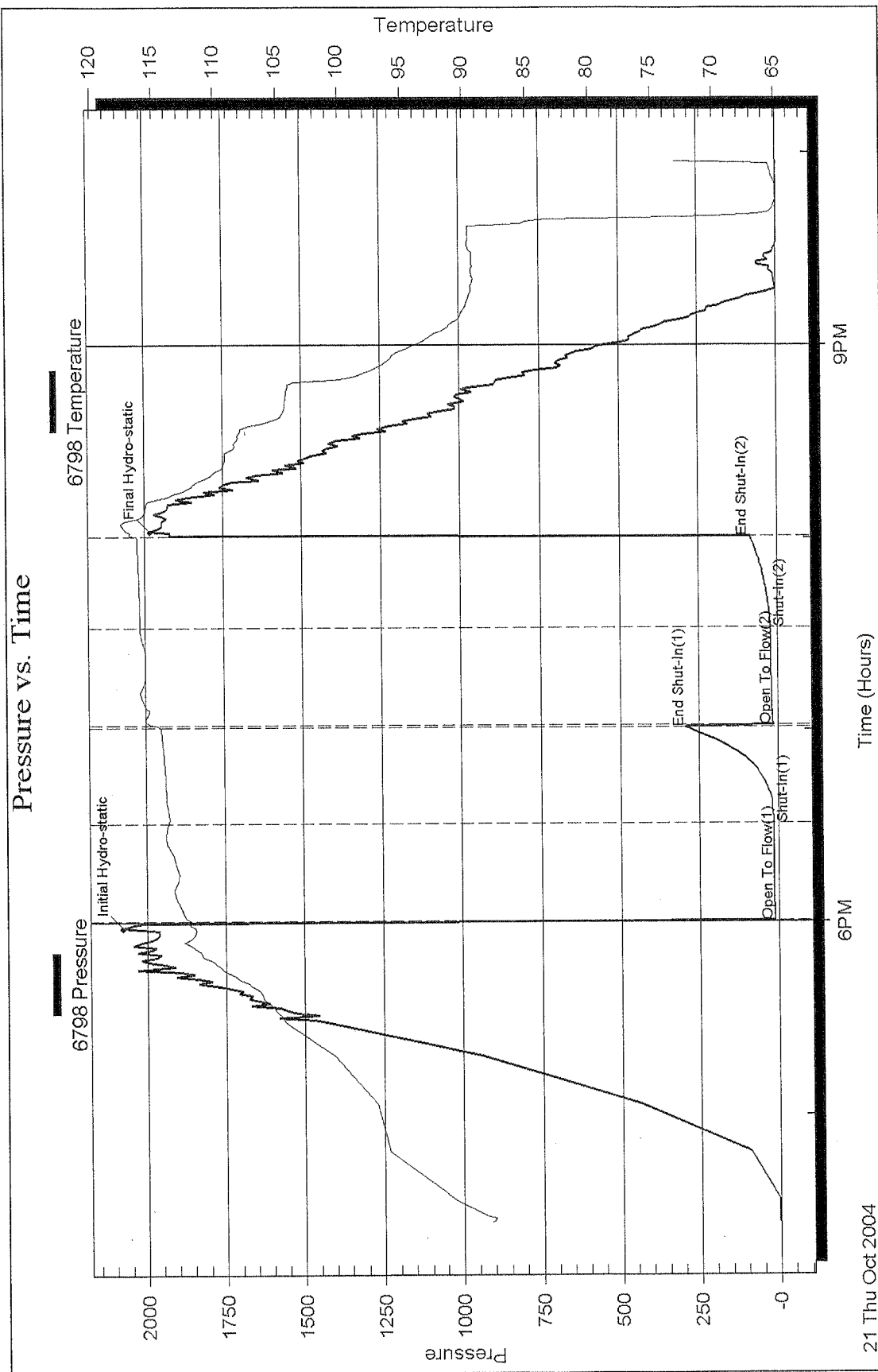
Num Gas Bombs: 0

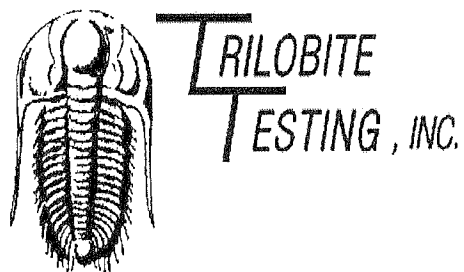
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

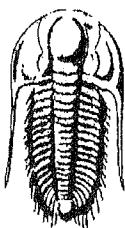
Penka 17C #1

Start Date: 2004.10.22 @ 06:27:40

End Date: 2004.10.22 @ 12:35:40

Job Ticket #: 20117 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

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20117

DST#: 4

Test Start: 2004.10.22 @ 06:27:40

GENERAL INFORMATION:

Formation: **L/KC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:18:25

Time Test Ended: 12:35:40

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4161.00 ft (KB) To 4214.00 ft (KB) (TVD)**

Total Depth: 4214.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 21.94 psig @ 4162.00 ft (KB)

Start Date: 2004.10.22

End Date: 2004.10.22

Start Time: 06:27:45

End Time: 12:35:39

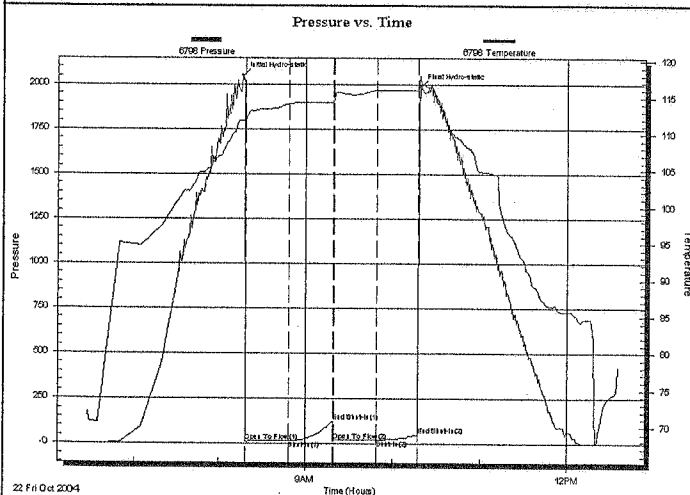
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.22 @ 08:16:25

Time Off Btm: 2004.10.22 @ 10:18:55

TEST COMMENT: IF; Weak surface blow died in 20 mins
FF; No return blow



PRESSURE SUMMARY

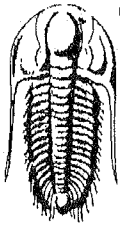
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.82	111.87	Initial Hydro-static
2	13.05	110.81	Open To Flow (1)
32	18.22	114.09	Shut-In (1)
63	124.51	114.35	End Shut-In (1)
63	18.98	114.64	Open To Flow (2)
93	21.94	116.02	Shut-In (2)
121	47.77	116.06	End Shut-In (2)
123	1985.92	117.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud w/oil spots	0.05

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20117

DST#: 4

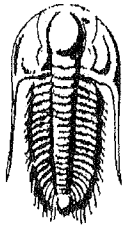
Test Start: 2004.10.22 @ 06:27:40

Tool Information

Drill Pipe:	Length: 3941.00 ft	Diameter: 3.80 inches	Volume: 55.28 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 56.29 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4161.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4147.00	
Hydraulic tool	5.00			4152.00	
Packer	5.00			4157.00	19.00 Bottom Of Top Packer
Packer	4.00			4161.00	
Stubb	1.00			4162.00	
Recorder	0.00	6798	Inside	4162.00	
Perforations	13.00			4175.00	
Change Over Sub	1.00			4176.00	
Anchor	31.00			4207.00	
Change Over Sub	1.00			4208.00	
Recorder	0.00	13309	Outside	4208.00	
Bullnose	5.00			4213.00	52.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20117

DST#: 4

ATTN: Craig Caulk

Test Start: 2004.10.22 @ 06:27:40

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. Mud w/oil spots	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

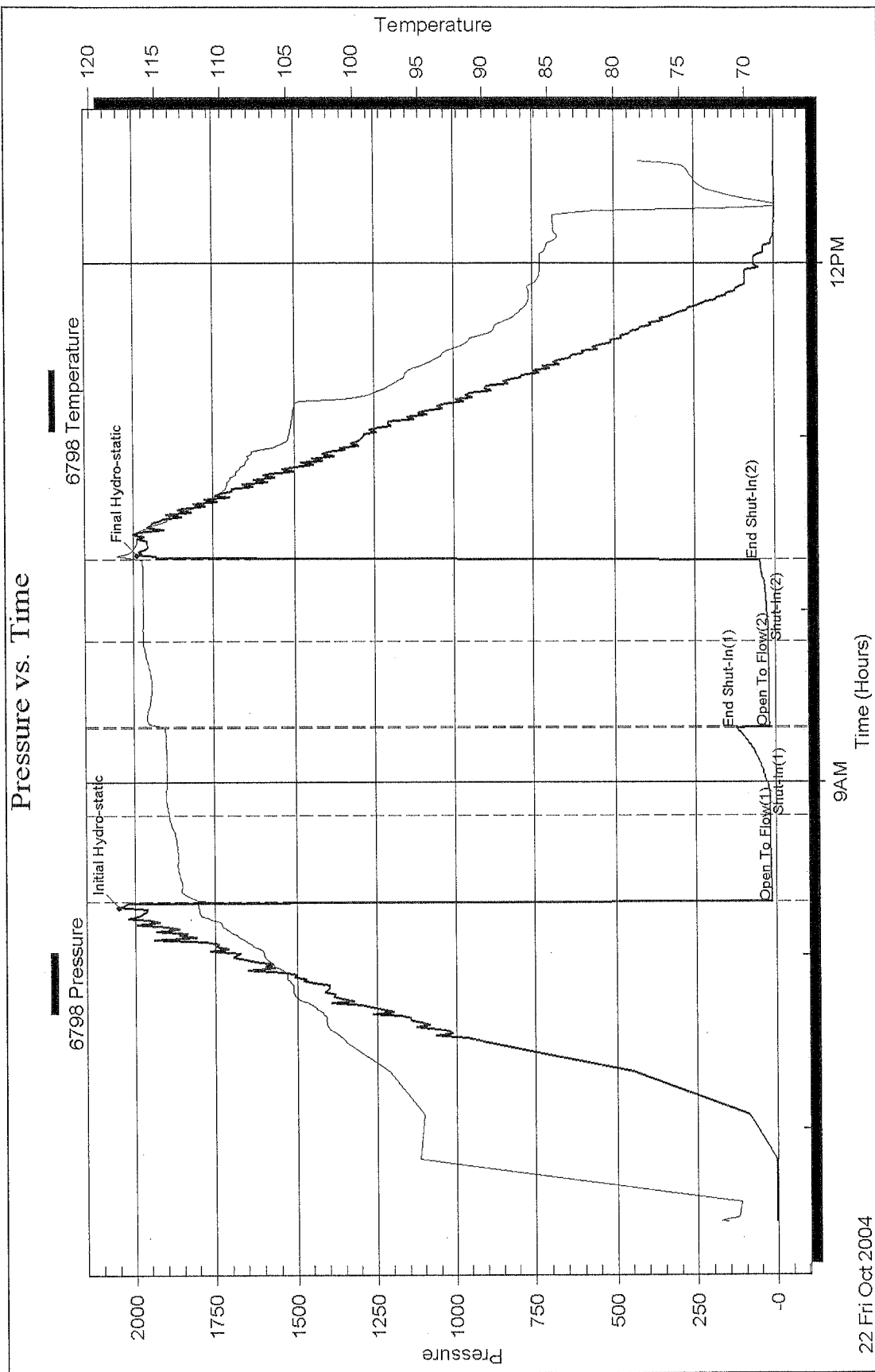
Serial #:

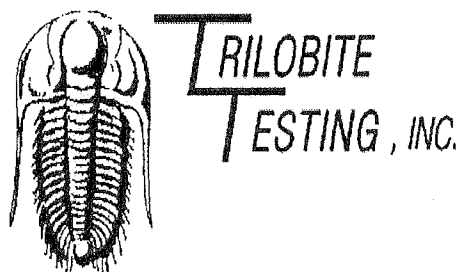
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.22 @ 19:49:35

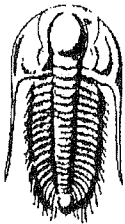
End Date: 2004.10.23 @ 03:29:00

Job Ticket #: 20118 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20118

DST#: 5

Test Start: 2004.10.22 @ 19:49:35

GENERAL INFORMATION:

Formation: **L/KC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:05

Time Test Ended: 03:29:00

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4215.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: 4240.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 242.77 psig @ 4216.00 ft (KB)

Start Date: 2004.10.22

End Date: 2004.10.23

Start Time: 19:49:40

End Time: 03:05:34

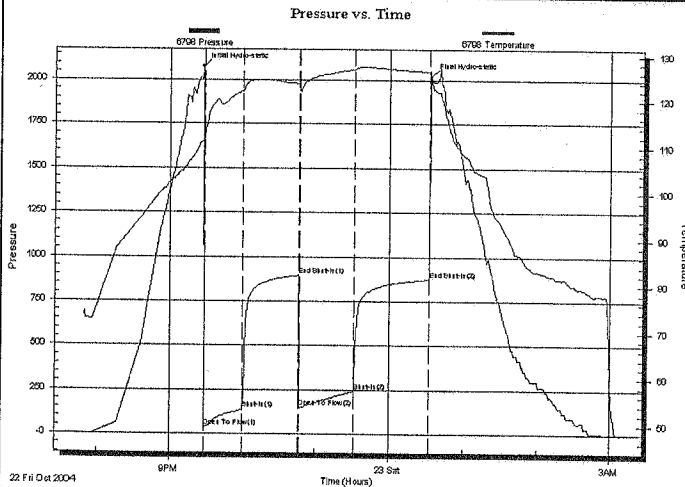
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.22 @ 21:27:50

Time Off Btm: 2004.10.23 @ 00:33:35

TEST COMMENT: IF; Strong blow off bttm in 3 mins
IS; Fair return built to 7" decreased to 2"
FF; Fair to strong off bttm in 7 mins
FS; Fair return built to 5"



PRESSURE SUMMARY

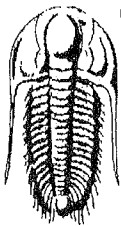
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.21	111.09	Initial Hydro-static
2	36.07	111.73	Open To Flow (1)
33	138.87	122.21	Shut-In(1)
79	893.67	123.76	End Shut-In(1)
80	149.97	122.46	Open To Flow (2)
124	242.77	126.86	Shut-In(2)
185	873.06	126.36	End Shut-In(2)
186	2020.13	125.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 20%g 5%o 25%w 50%m	0.30
120.00	GWMCO 60%g 20%o 10%w 10%m	0.59
470.00	CGO 20%g 80%o	6.37
0.00	2040 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20118

DST#: 5

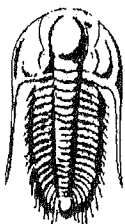
ATTN: Craig Caulk

Test Start: 2004.10.22 @ 19:49:35

Tool Information

Drill Pipe:	Length: 4001.00 ft	Diameter: 3.80 inches	Volume: 56.12 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 57.13 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4215.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4201.00	
Hydraulic tool	5.00			4206.00	
Packer	5.00			4211.00	19.00 Bottom Of Top Packer
Packer	4.00			4215.00	
Stubb	1.00			4216.00	
Recorder	0.00	6798	Inside	4216.00	
Perforations	19.00			4235.00	
Recorder	0.00	13309	Outside	4235.00	
Bullnose	5.00			4240.00	25.00 Bottom Packers & Anchor
Total Tool Length:		44.00			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20118

DST#: 5

ATTN: Craig Caulk

Test Start: 2004.10.22 @ 19:49:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOWCM 20%g 5%o 25%w 50%m	0.295
120.00	GWMCO 60%g 20%o 10%w 10%m	0.590
470.00	CGO 20%g 80%o	6.365
0.00	2040 GIP	0.000

Total Length: 650.00 ft

Total Volume: 7.250 bbl

Num Fluid Samples: 0

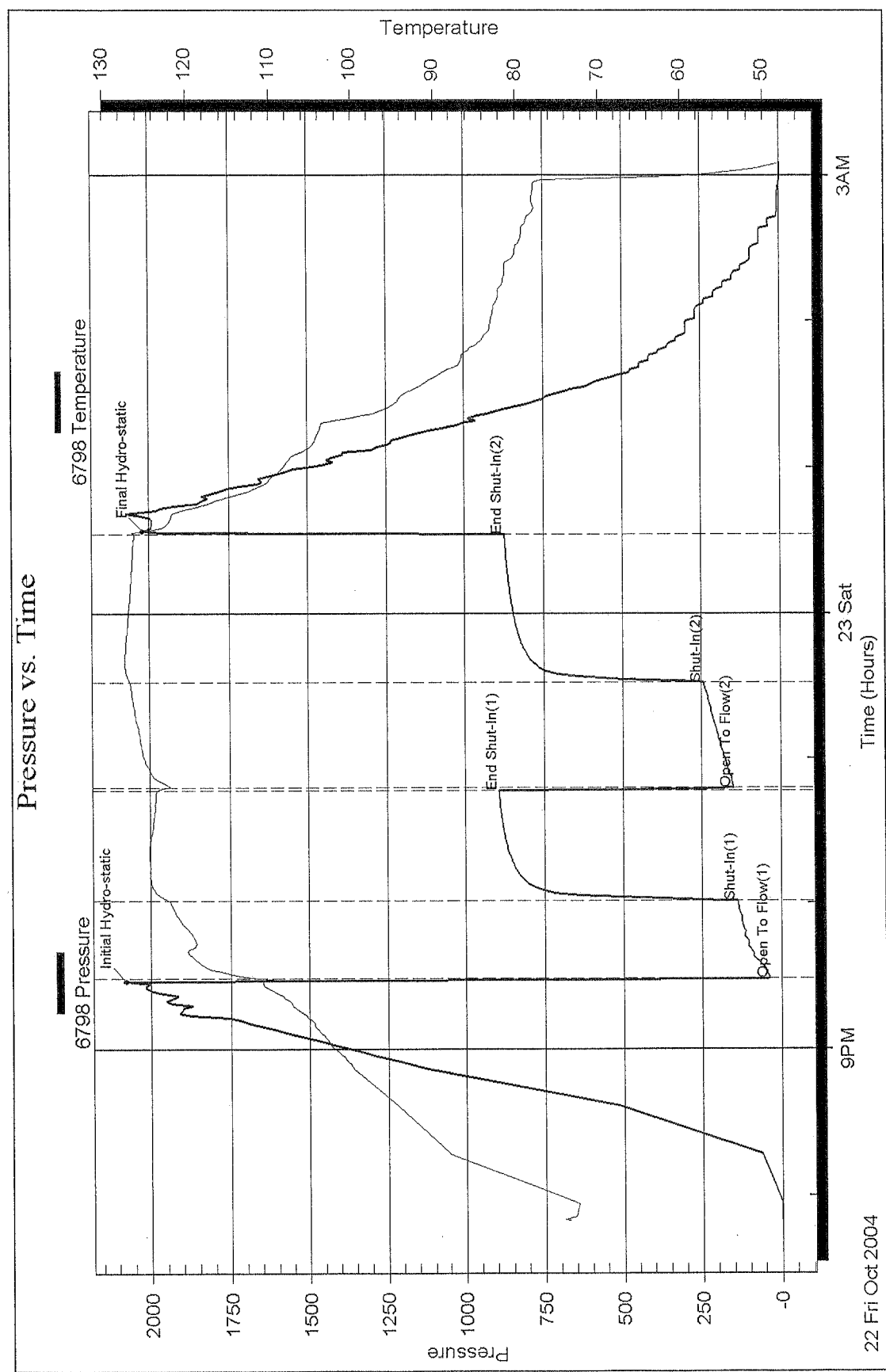
Num Gas Bombs: 0

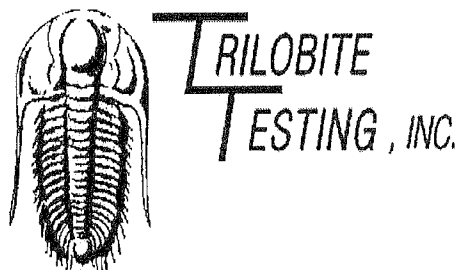
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

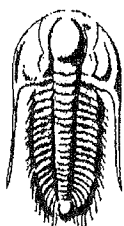
Penka 17C #1

Start Date: 2004.10.23 @ 11:03:13

End Date: 2004.10.23 @ 18:48:28

Job Ticket #: 20119 DST #: 6

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20119

DST#: 6

Test Start: 2004.10.23 @ 11:03:13

GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:49:43

Time Test Ended: 18:48:28

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4249.00 ft (KB) To 4268.00 ft (KB) (TVD)**

Total Depth: 4268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 410.41 psig @ 4250.00 ft (KB)

Start Date: 2004.10.23

End Date: 2004.10.23

Start Time: 11:03:18

End Time: 18:48:27

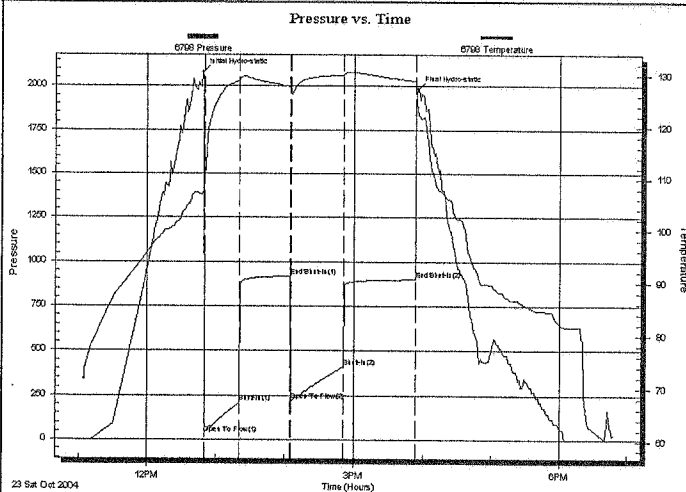
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.23 @ 12:48:28

Time Off Btm: 2004.10.23 @ 15:54:58

TEST COMMENT: IF; Strong blow off bttm in 3 mins
IS; Fair return built to 7"
FF; Strong blow off bttm in 3 mins
FSI; Fair return built to bttm in 15 mins



PRESSURE SUMMARY

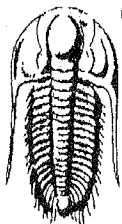
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.74	107.09	Initial Hydro-static
2	33.69	107.40	Open To Flow (1)
32	209.97	128.97	Shut-In (1)
77	917.23	127.82	End Shut-In (1)
78	222.56	126.85	Open To Flow (2)
122	410.41	130.02	Shut-In (2)
185	899.52	128.87	End Shut-In (2)
187	1982.04	123.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 20%g 10%o 70%rn	0.59
1245.00	CGO 25%g 75%o	16.69
0.00	1860 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20119

DST#: 6

ATTN: Craig Caulk

Test Start: 2004.10.23 @ 11:03:13

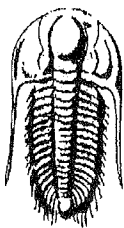
Tool Information

Drill Pipe:	Length: 4037.00 ft	Diameter: 3.80 inches	Volume: 56.63 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	65000.00 lb
			Total Volume: 57.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4249.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00			4240.00	
Packer	5.00			4245.00	19.00 Bottom Of Top Packer
Packer	4.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	6798	Inside	4250.00	
Perforations	13.00			4263.00	
Recorder	0.00	13309	Outside	4263.00	
Bullnose	5.00			4268.00	19.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20119

DST#: 6

ATTN: Craig Caulk

Test Start: 2004.10.23 @ 11:03:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 20%g 10%o 70%m	0.590
1245.00	CGO 25%g 75%o	16.690
0.00	1860 GIP	0.000

Total Length: 1365.00 ft

Total Volume: 17.280 bbl

Num Fluid Samples: 0

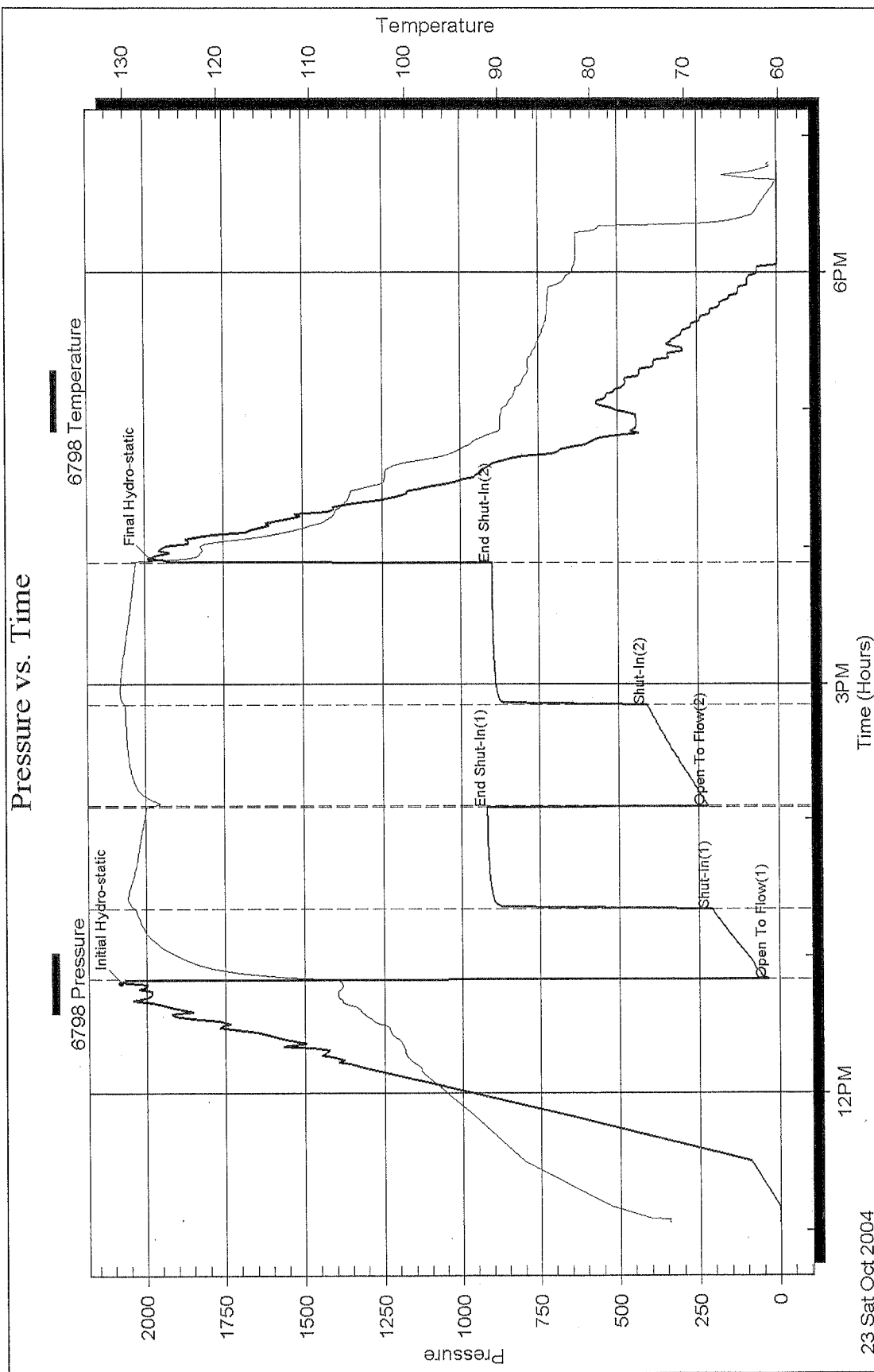
Num Gas Bombs: 0

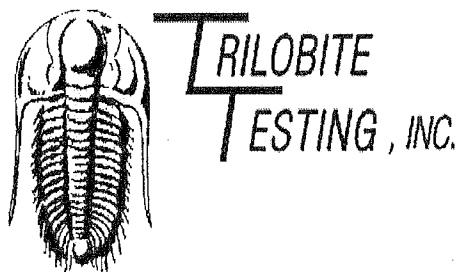
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.24 @ 02:24:37

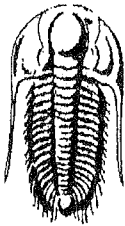
End Date: 2004.10.24 @ 10:33:07

Job Ticket #: 20120 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20120

DST#: 7

Test Start: 2004.10.24 @ 02:24:37

GENERAL INFORMATION:

Formation: **L/KC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:37

Time Test Ended: 10:33:07

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4276.00 ft (KB) To 4306.00 ft (KB) (TVD)**

Total Depth: 4306.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 816.90 psig @ 4277.00 ft (KB)

Start Date: 2004.10.24 End Date: 2004.10.24

Start Time: 02:24:42 End Time: 10:33:06

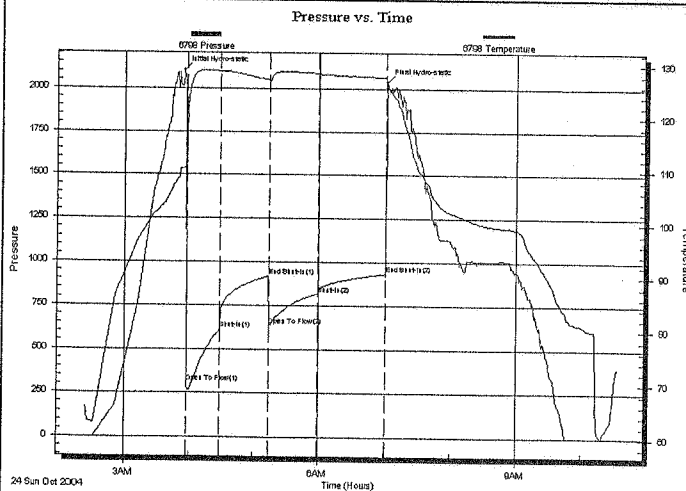
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.24 @ 03:55:07

Time Off Btm: 2004.10.24 @ 07:01:22

TEST COMMENT: IF; Strong blow off btm in 1 min
IS; Weak 1/2" steady throughout
FF; Weak blow built to 5" decreased to 1/2"
FS; No return blow



PRESSURE SUMMARY

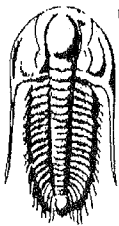
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.93	110.54	Initial Hydro-static
3	303.84	112.36	Open To Flow (1)
34	609.83	128.90	Shut-In(1)
79	917.73	127.30	End Shut-In(1)
80	632.32	126.85	Open To Flow (2)
124	816.90	128.52	Shut-In(2)
186	932.35	127.72	End Shut-In(2)
187	2035.68	126.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Wtr	0.59
2240.00	CGO 35%g 65%o Reversed Out to Pit	30.65
0.00	1800 GIP	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20120

DST#: 7

ATTN: Craig Caulk

Test Start: 2004.10.24 @ 02:24:37

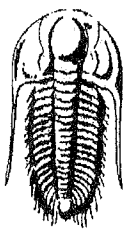
Tool Information

Drill Pipe:	Length: 4071.00 ft	Diameter: 3.80 inches	Volume: 57.11 bbl	Tool Weight: 2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	58.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4276.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Packer	5.00			4272.00	19.00 Bottom Of Top Packer
Packer	4.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	6798	Inside	4277.00	
Perforations	24.00			4301.00	
Recorder	0.00	13309	Outside	4301.00	
Bullnose	5.00			4306.00	30.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20120

DST#: 7

ATTN: Craig Caulk

Test Start: 2004.10.24 @ 02:24:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 35.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 49000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Wtr	0.590
2240.00	CGO 35%g 65%o Revesed Out to Pft	30.647
0.00	1800 GIP	0.000

Total Length: 2360.00 ft

Total Volume: 31.237 bbl

Num Fluid Samples: 0

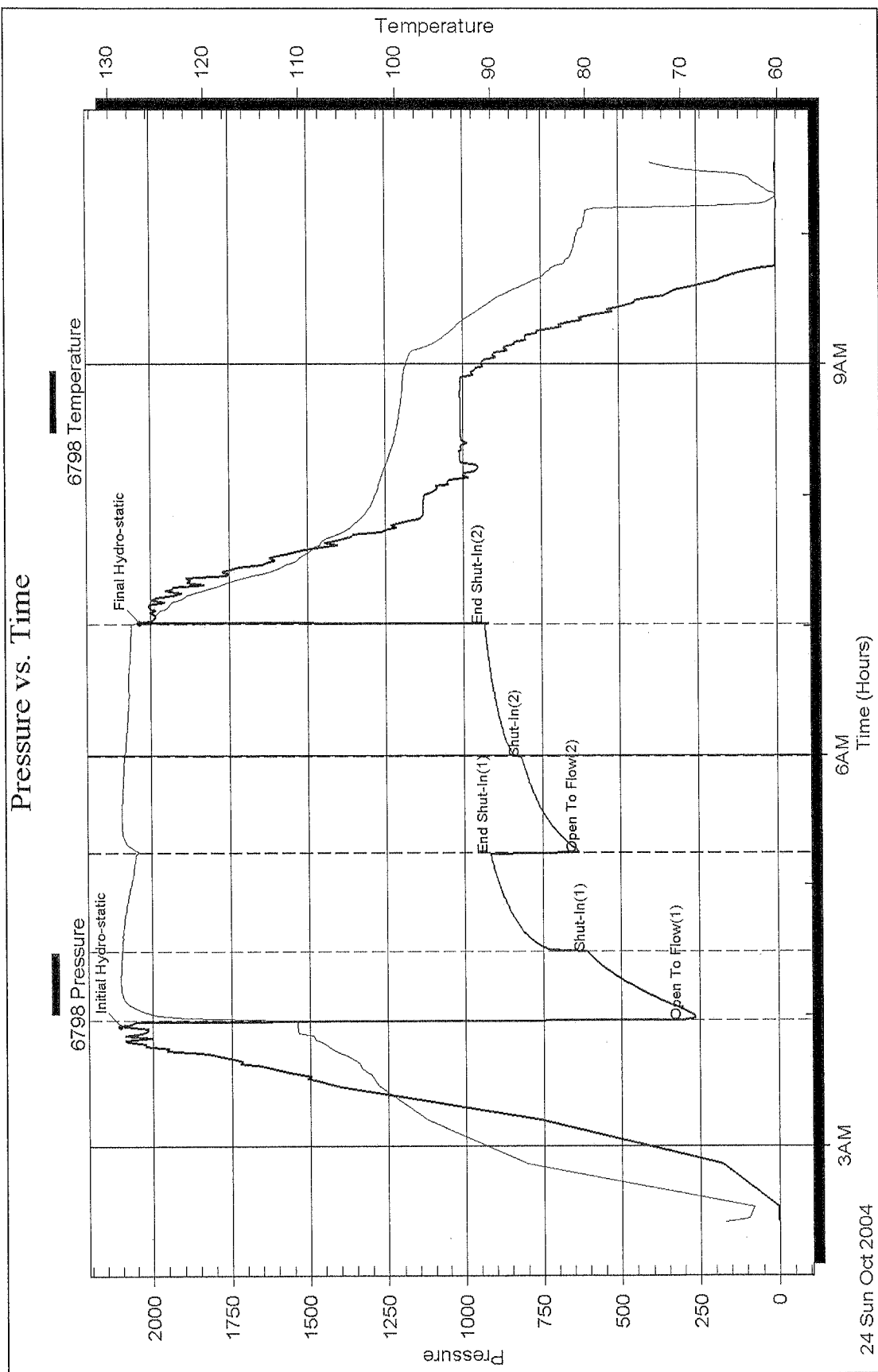
Num Gas Bombs: 0

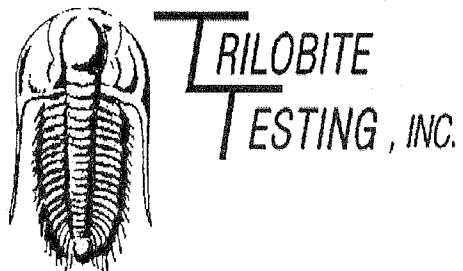
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.24 @ 17:42:48

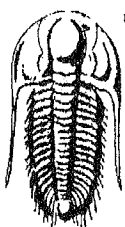
End Date: 2004.10.25 @ 02:21:03

Job Ticket #: 20121 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20121

DST#: 8

Test Start: 2004.10.24 @ 17:42:48

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: .ft (KB)

Time Tool Opened: 19:23:48

Time Test Ended: 02:21:03

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4309.00 ft (KB) To 4333.00 ft (KB) (TVD)**

Total Depth: 4333.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 618.09 psig @ 4310.00 ft (KB)

Start Date: 2004.10.24

End Date:

2004.10.25

Start Time: 17:42:53

End Time:

02:21:03

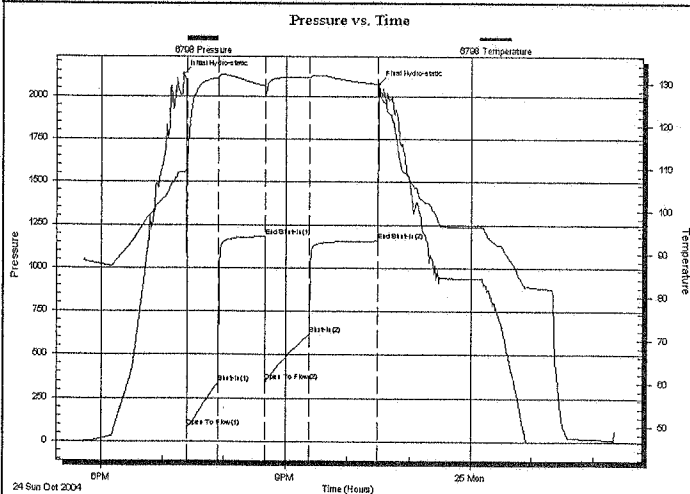
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.24 @ 19:20:48

Time Off Btm: 2004.10.24 @ 22:30:18

TEST COMMENT: IF; Strong blow off bttmin 2 mins
IS; Fair return off bttmin 10 mins
FF; Strong blow off bttmin 3 mins
FS; Fair return off bttmin 15 mins GTS @ 45 mins



PRESSURE SUMMARY

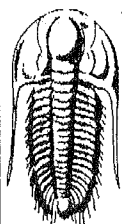
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.93	109.08	Initial Hydro-static
3	83.71	109.18	Open To Flow (1)
34	337.56	131.12	Shut-In (1)
79	1179.45	129.40	End Shut-In (1)
80	348.17	128.06	Open To Flow (2)
123	618.09	131.26	Shut-In (2)
189	1156.37	129.75	End Shut-In (2)
190	2068.71	129.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2108.00	CGO 40%g 60%o Reversed to Pit	27.70

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20121

DST#: 8

ATTN: Craig Caulk

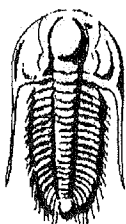
Test Start: 2004.10.24 @ 17:42:48

Tool Information

Drill Pipe:	Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 58.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4309.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4295.00	
Hydraulic tool	5.00			4300.00	
Packer	5.00			4305.00	19.00 Bottom Of Top Packer
Packer	4.00			4309.00	
Stubb	1.00			4310.00	
Recorder	0.00	6798	Inside	4310.00	
Perforations	18.00			4328.00	
Recorder	0.00	13309	Outside	4328.00	
Bullnose	5.00			4333.00	24.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20121

DST#: 8

ATTN: Craig Caulk

Test Start: 2004.10.24 @ 17:42:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2108.00	CGO 40%g 60%o Reversed to Pit	27.702

Total Length: 2108.00 ft

Total Volume: 27.702 bbl

Num Fluid Samples: 0

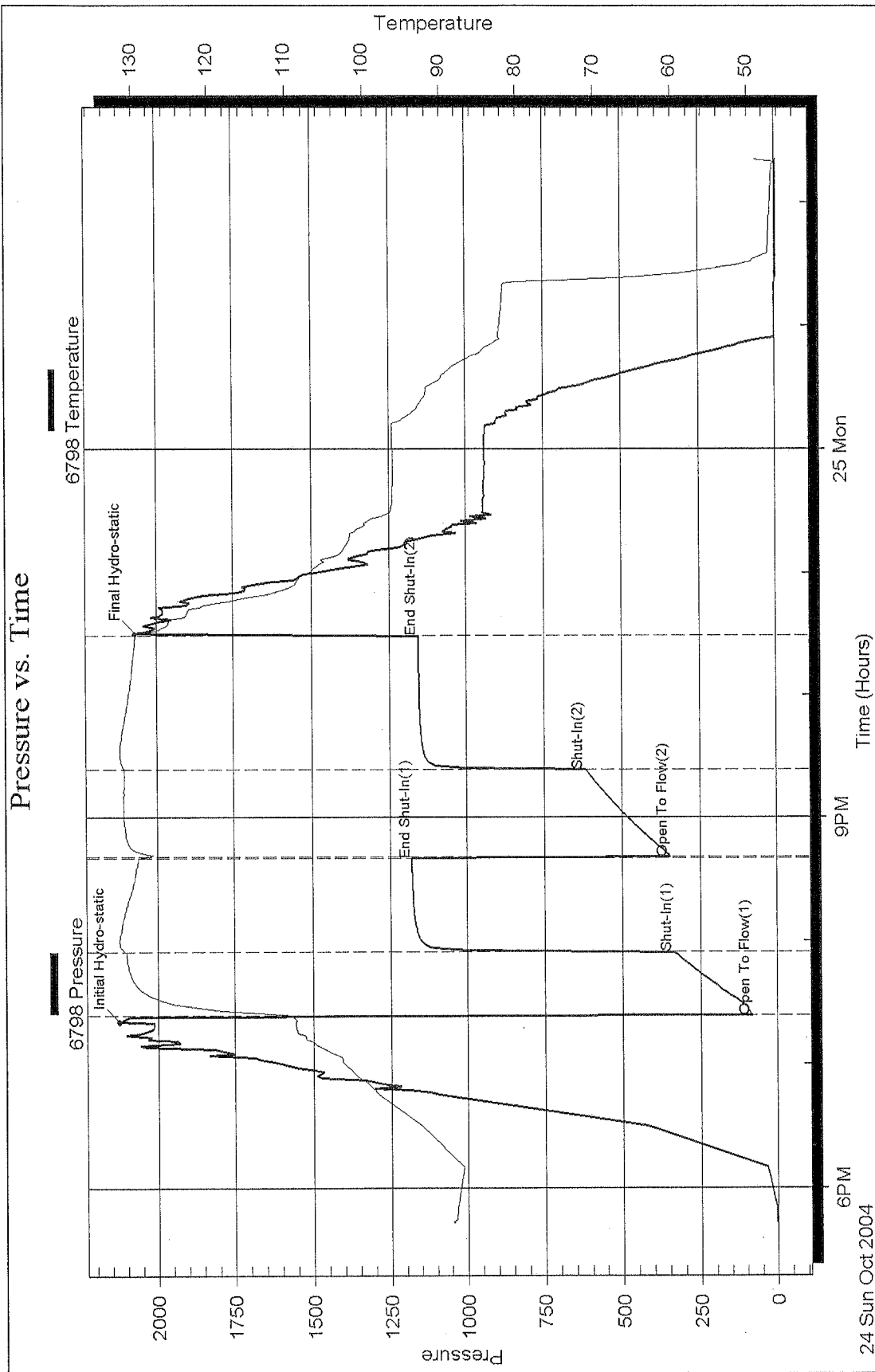
Num Gas Bombs: 0

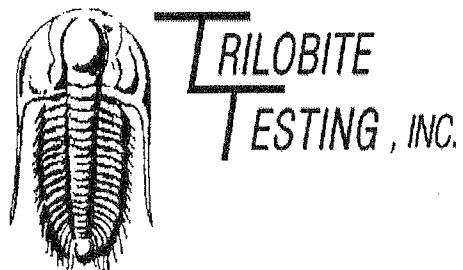
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

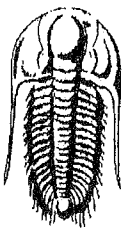
Penka 17C #1

Start Date: 2004.10.25 @ 14:14:20

End Date: 2004.10.25 @ 21:54:05

Job Ticket #: 20122 DST #: 9

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20122

DST#: 9

Test Start: 2004.10.25 @ 14:14:20

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:06:05

Time Test Ended: 21:54:05

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4350.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Total Depth: 4410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 177.98 psig @ 4351.00 ft (KB)

Start Date: 2004.10.25

End Date: 2004.10.25

Start Time: 14:14:25

End Time: 21:54:04

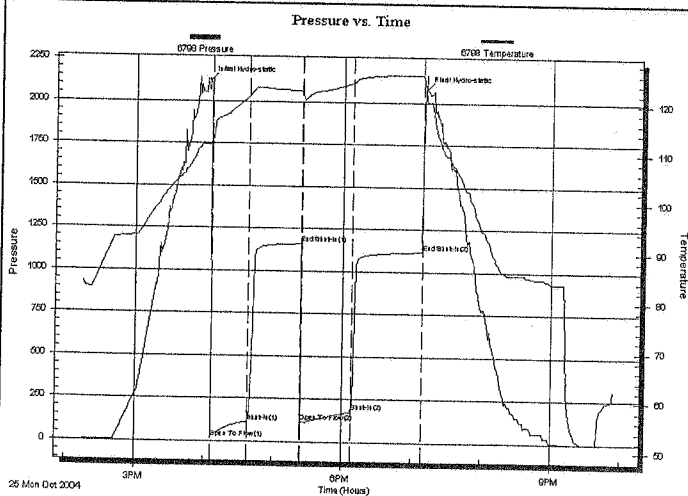
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.25 @ 16:04:05

Time Off Btm: 2004.10.25 @ 19:11:50

TEST COMMENT: IF; Fair to strong off btm in 10 mins
ISI; No return
FF; Fair to strong off btm in 10 mins
FSI; Surface blow built to btm in 12 mins



PRESSURE SUMMARY

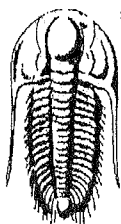
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.23	111.63	Initial Hydro-static
2	19.46	111.49	Open To Flow (1)
34	112.29	121.49	Shut-In(1)
80	1160.45	122.58	End Shut-In(1)
81	120.79	121.97	Open To Flow (2)
124	177.98	124.27	Shut-In(2)
185	1115.26	125.97	End Shut-In(2)
188	2078.94	121.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	GOCM 25%g 30%o 45%m	3.74
120.00	CGO 25%g 75%o	1.68
0.00	1000 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20122

DST#: 9

ATTN: Craig Caulk

Test Start: 2004.10.25 @ 14:14:20

Tool Information

Drill Pipe:	Length: 4129.00 ft	Diameter: 3.80 inches	Volume: 57.92 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	58.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4350.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	79.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

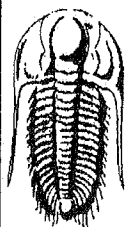
Tool Comments:

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00		4336.00	
Hydraulic tool	5.00		4341.00	
Packer	5.00		4346.00	19.00 Bottom Of Top Packer
Packer	4.00		4350.00	
Stubb	1.00		4351.00	
Recorder	0.00	6798 Inside	4351.00	
Perforations	21.00		4372.00	
Change Over Sub	1.00		4373.00	
Anchor	31.00		4404.00	
Change Over Sub	1.00		4405.00	
Recorder	0.00	13309 Outside	4405.00	
Bullnose	5.00		4410.00	60.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20122

DST#: 9

ATTN: Craig Caulk

Test Start: 2004.10.25 @ 14:14:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	GOCM 25%g 30%o 45%m	3.743
120.00	CGO 25%g 75%o	1.683
0.00	1000 GIP	0.000

Total Length: 520.00 ft

Total Volume: 5.426 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 9

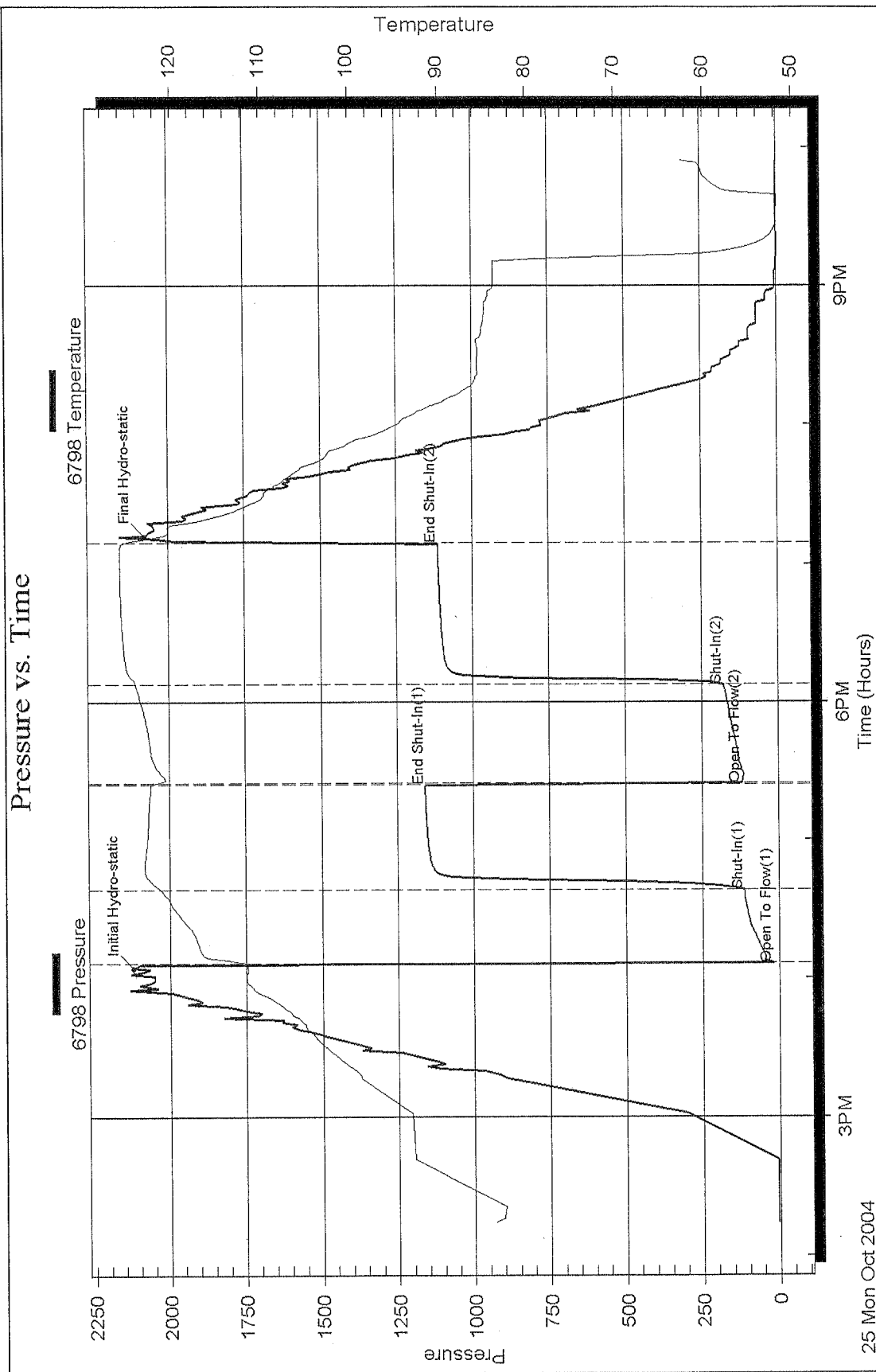
17-17S-28W Lane

Ritchie Exploration Inc.

Inside

Serial #: 6798

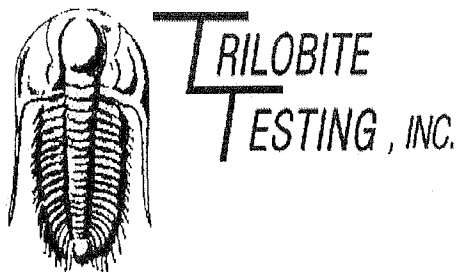
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 20122

Printed: 2004.10.29 @ 15:58:58 Page 5



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.26 @ 07:53:57

End Date: 2004.10.26 @ 14:34:57

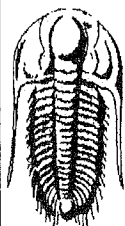
Job Ticket #: 20123

DST #: 10

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20123

DST#: 10

Test Start: 2004.10.26 @ 07:53:57

GENERAL INFORMATION:

Formation: **Ft. Scott - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:01:27

Time Test Ended: 14:34:57

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4422.00 ft (KB) To 4495.00 ft (KB) (TVD)**

Total Depth: 4495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

Press@RunDepth: 21.73 psig @ 4423.00 ft (KB)

Start Date: 2004.10.26

End Date: 2004.10.26

Start Time: 07:54:02

End Time: 14:34:56

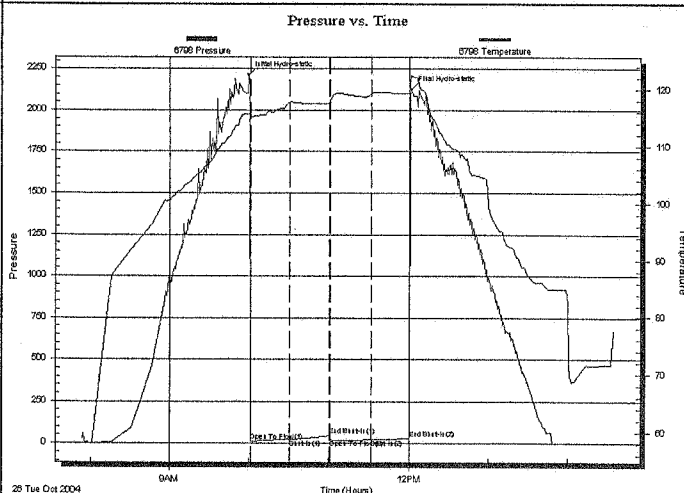
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.26 @ 09:59:42

Time Off Btm: 2004.10.26 @ 12:01:42

TEST COMMENT: IF; Weak surface blow died in 10 mins
FF; No reurn blow



PRESSURE SUMMARY

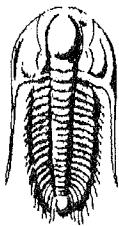
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.16	115.71	Initial Hydro-static
2	14.21	114.96	Open To Flow (1)
32	24.90	117.77	Shut-In(1)
62	47.54	117.52	End Shut-In(1)
62	25.52	118.09	Open To Flow (2)
93	21.73	119.26	Shut-In(2)
121	30.17	119.32	End Shut-In(2)
122	2125.69	122.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Slightly Oil Stained Mud	0.05

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20123

DST#: 10

Test Start: 2004.10.26 @ 07:53:57

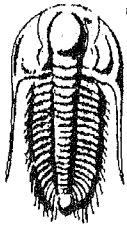
Tool Information

Drill Pipe:	Length: 4220.00 ft	Diameter: 3.80 inches	Volume: 59.20 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	60.21 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4422.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4408.00	
Hydraulic tool	5.00			4413.00	
Packer	5.00			4418.00	19.00 Bottom Of Top Packer
Packer	4.00			4422.00	
Stubb	1.00			4423.00	
Recorder	0.00	6798	Inside	4423.00	
Perforations	34.00			4457.00	
Change Over Sub	1.00			4458.00	
Anchor	31.00			4489.00	
Change Over Sub	1.00			4490.00	
Recorder	0.00	13309	Outside	4490.00	
Bullnose	5.00			4495.00	73.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20123

DST#: 10

ATTN: Craig Caulk

Test Start: 2004.10.26 @ 07:53:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Slightly Oil Stained Mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 10

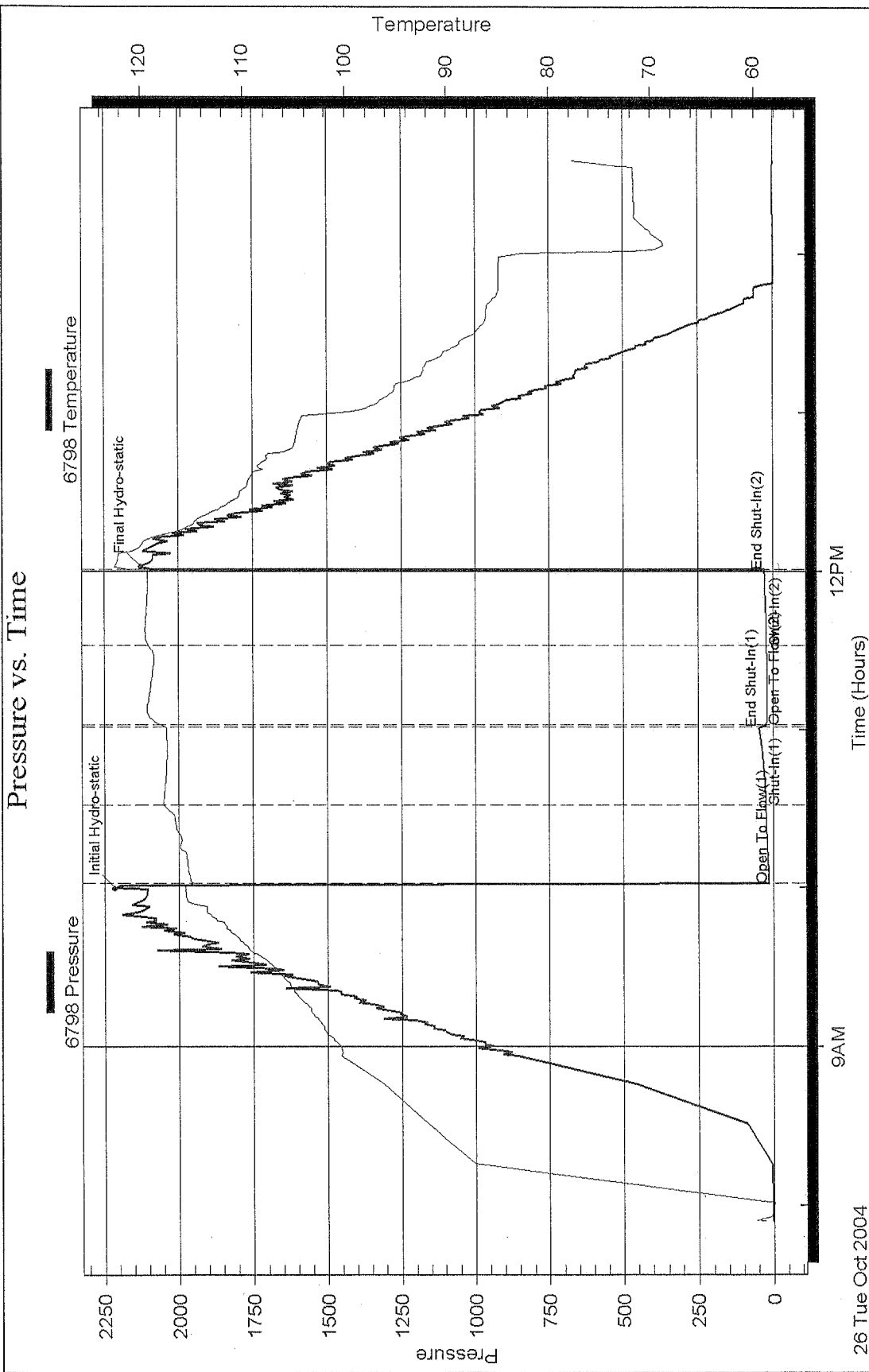
17-17S-28W Lane

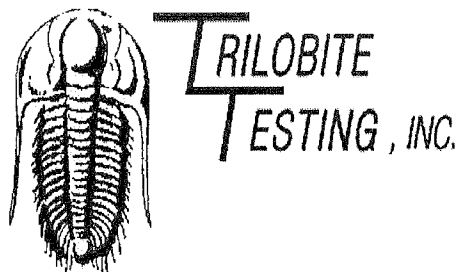
Richie Exploration Inc.

Inside

Serial #: 6798

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

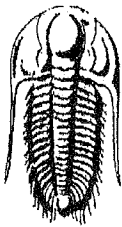
Penka 17C #1

Start Date: 2004.10.26 @ 21:44:36

End Date: 2004.10.27 @ 04:29:06

Job Ticket #: 20124 DST #: 11

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20124

DST#: 11

Test Start: 2004.10.26 @ 21:44:36

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:22:51

Time Test Ended: 04:29:06

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4496.00 ft (KB) To 4520.00 ft (KB) (TVD)**

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 52.78 psig @ 4497.00 ft (KB)

Start Date: 2004.10.26

End Date: 2004.10.27

Start Time: 21:44:41

End Time: 04:29:05

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.26 @ 23:20:51

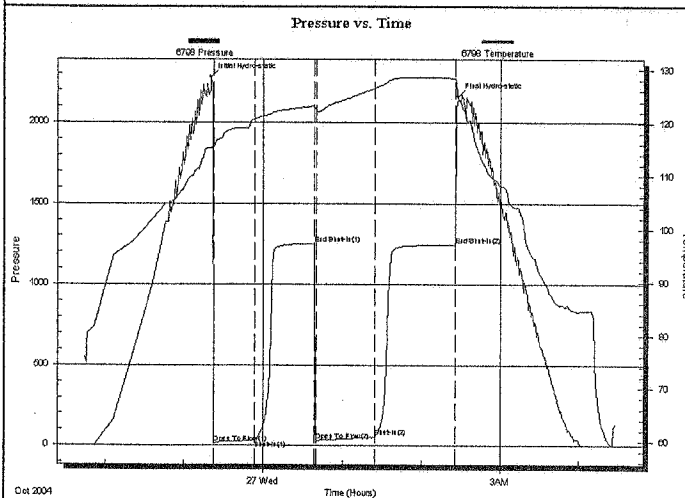
Time Off Btm: 2004.10.27 @ 02:27:51

TEST COMMENT: IF; Weak to fair built to 7"

IS; No return

FF; Fair blow off btm in 30 mins

FS; No return



PRESSURE SUMMARY

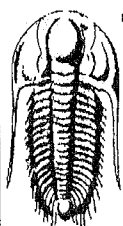
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.64	115.32	Initial Hydro-static
2	13.00	115.48	Open To Flow (1)
33	32.15	120.79	Shut-In(1)
78	1251.58	123.19	End Shut-In(1)
79	30.93	122.42	Open To Flow (2)
124	52.78	126.53	Shut-In(2)
186	1243.66	128.49	End Shut-In(2)
187	2159.44	124.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGMCO 5%g 60%o 35%m	0.15
90.00	CGO 10%g 90%o	0.44
0.00	250 GIP	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20124

DST#: 11

Test Start: 2004.10.26 @ 21:44:36

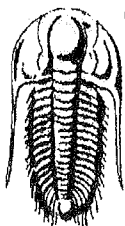
Tool Information

Drill Pipe:	Length: 4284.00 ft	Diameter: 3.80 inches	Volume: 60.09 bbl	Tool Weight: 2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 61.10 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4496.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4482.00	
Hydraulic tool	5.00			4487.00	
Packer	5.00			4492.00	19.00 Bottom Of Top Packer
Packer	4.00			4496.00	
Stubb	1.00			4497.00	
Recorder	0.00	6798	Inside	4497.00	
Perforations	18.00			4515.00	
Recorder	0.00	13309	Outside	4515.00	
Bullnose	5.00			4520.00	24.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20124

DST#: 11

ATTN: Craig Caulk

Test Start: 2004.10.26 @ 21:44:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGMCO 5%g 60%o 35%m	0.148
90.00	CGO 10%g 90%o	0.443
0.00	250 GIP	0.000

Total Length: 120.00 ft

Total Volume: 0.591 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

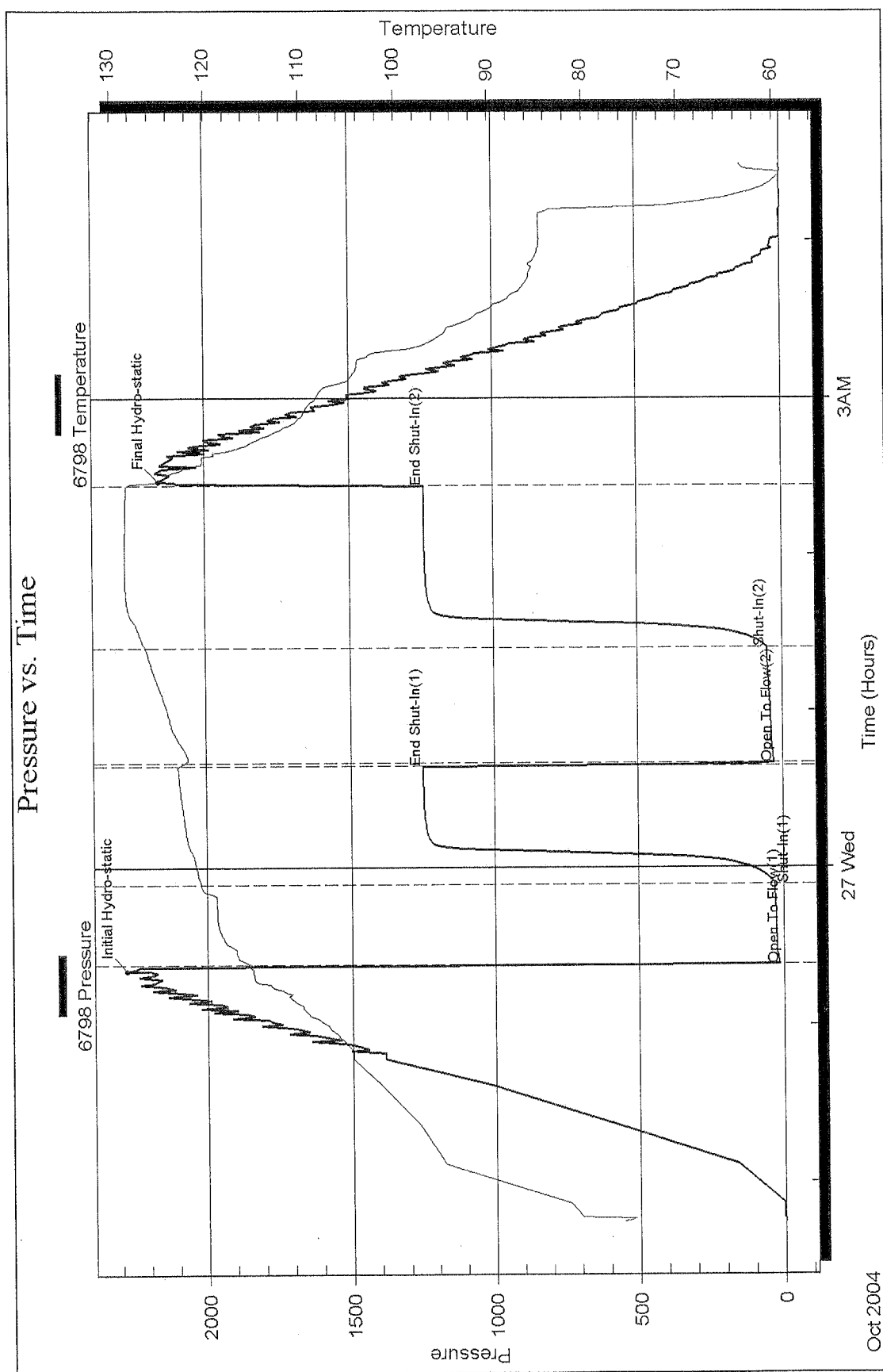
Serial #:

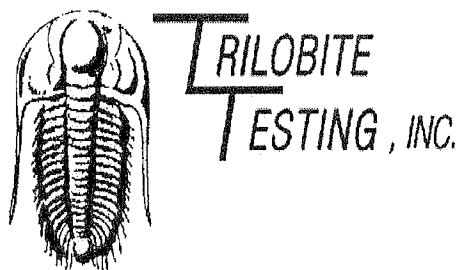
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

17-17S-28W Lane

Penka 17C #1

Start Date: 2004.10.27 @ 11:55:59

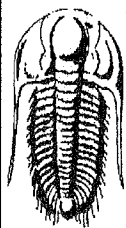
End Date: 2004.10.27 @ 17:38:29

Job Ticket #: 20125 DST #: 12

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

P. O. Box 783188
Wichita KS 67278-3188

ATTN: Craig Caulk

Penka 17C #1

17-17S-28W Lane

Job Ticket: 20125

DST#: 12

Test Start: 2004.10.27 @ 11:55:59

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:44

Time Test Ended: 17:38:29

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4521.00 ft (KB) To 4546.00 ft (KB) (TVD)**

Total Depth: 4546.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2782.00 ft (KB)

2770.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

Press@RunDepth: 27.14 psig @ 4522.00 ft (KB)

Start Date: 2004.10.27

End Date: 2004.10.27

Start Time: 11:56:04

End Time: 17:38:28

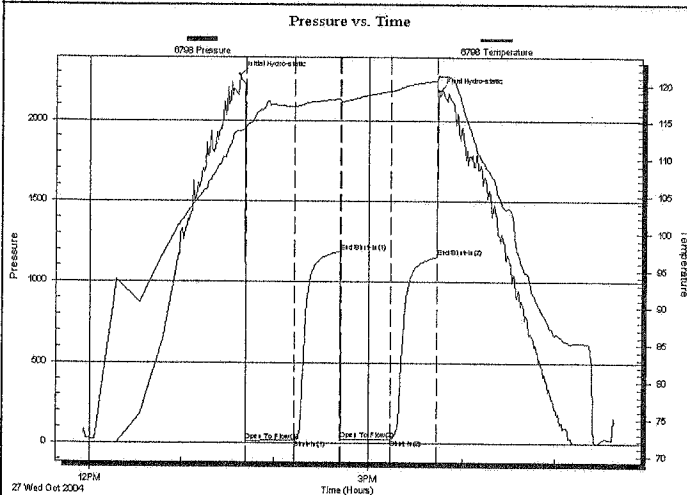
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.10.27 @ 13:37:59

Time Off Btm: 2004.10.27 @ 15:44:29

TEST COMMENT: IF; Weak surface blow died @ 20 mins
FF; No return blow



PRESSURE SUMMARY

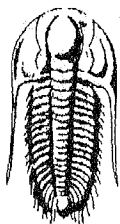
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.22	113.74	Initial Hydro-static
4	13.72	114.08	Open To Flow (1)
35	20.20	117.14	Shut-In(1)
64	1188.48	118.14	End Shut-In(1)
65	22.06	117.84	Open To Flow (2)
96	27.14	119.20	Shut-In(2)
126	1154.68	120.62	End Shut-In(2)
127	2181.90	121.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig. Mud w/Oil spots in tool	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20125

DST#: 12

ATTN: Craig Caulk

Test Start: 2004.10.27 @ 11:55:59

Tool Information

Drill Pipe:	Length: 4311.00 ft	Diameter: 3.80 inches	Volume: 60.47 bbl	Tool Weight:	2000.00 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 61.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4521.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

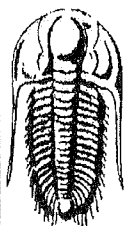
Tool Comments:

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00		4507.00	
Hydraulic tool	5.00		4512.00	
Packer	5.00		4517.00	19.00 Bottom Of Top Packer
Packer	4.00		4521.00	
Stubb	1.00		4522.00	
Recorder	0.00	6798 Inside	4522.00	
Perforations	17.00		4539.00	
Recorder	0.00	13309 Outside	4539.00	
Bullnose	5.00		4544.00	23.00 Bottom Packers & Anchor

Total Tool Length: 42.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Penka 17C #1

P. O. Box 783188
Wichita KS 67278-3188

17-17S-28W Lane

Job Ticket: 20125

DST#: 12

ATTN: Craig Caulk

Test Start: 2004.10.27 @ 11:55:59

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:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig. Mud w/Oil spots in tool	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

