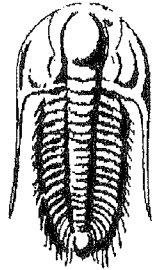


15-101-21937

33-17s-30w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.07.26 @ 21:01:08

End Date: 2006.07.27 @ 04:50:17

Job Ticket #: 23117 DST #: 1

**KCC
OCT 26 2006
CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2006.08.03 @ 10:38:12 Page 1

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Ritchie Exploration Inc

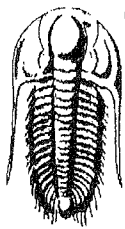
Sharp 33B #1

33 17S30W Lane KS

DST # 1

LKC E-F

2006.07.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23117

DST#: 1

ATTN: Brad Rine

Test Start: 2006.07.26 @ 21:01:08

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:35:48

Time Test Ended: 04:50:17

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4005.00 ft (KB) To 4045.00 ft (KB) (TVD)**

Reference Elevations: 2875.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Press@RunDepth: 806.95 psig @ 4006.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.07.26

End Date: 2006.07.27

Last Calib.: 2006.07.27

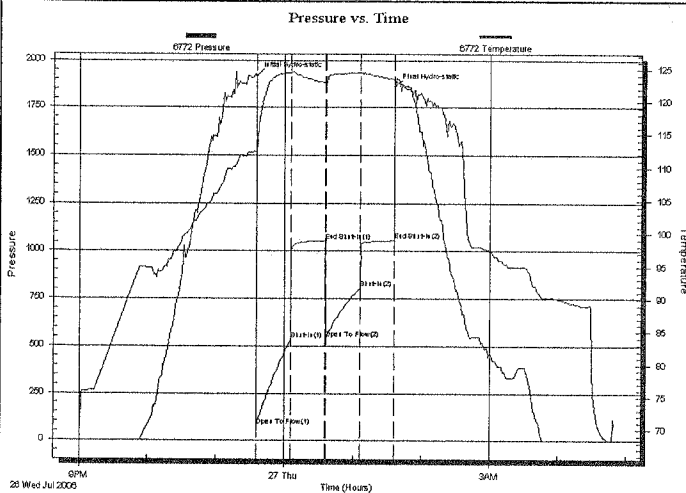
Start Time: 21:01:08

End Time: 04:50:17

Time On Btm: 2006.07.26 @ 23:35:33

Time Off Btm: 2006.07.27 @ 01:36:17

TEST COMMENT: IF 1/4 blow BOB in 2 min
IS No return
FF 1/4 blow BOB in 4 min
FS No return



PRESSURE SUMMARY

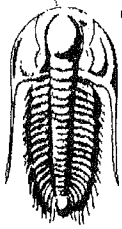
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.25	112.44	Initial Hydro-static
1	77.19	111.87	Open To Flow (1)
30	532.71	124.46	Shut-In(1)
60	1055.13	122.93	End Shut-In(1)
61	541.79	122.81	Open To Flow (2)
91	806.95	124.35	Shut-In(2)
121	1055.70	123.39	End Shut-In(2)
121	1859.22	123.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	MCW 5%M 95%M	0.45
1272.00	MCW 90%W 10%M	17.84
186.00	WCM 30%W 70%M	2.61
186.00	OCWM 5%O 15%W 80%M	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23117

DST#: 1

ATTN: Brad Rine

Test Start: 2006.07.26 @ 21:01:08

Tool Information

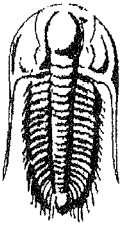
Drill Pipe:	Length: 3911.00 ft	Diameter: 3.80 inches	Volume: 54.86 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 55.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4005.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3984.00	
Shut In Tool	5.00			3989.00	
Hydraulic tool	5.00			3994.00	
Safety Joint	2.00			3996.00	
Packer	5.00			4001.00	22.00 Bottom Of Top Packer
Packer	4.00			4005.00	
Stubb	1.00			4006.00	
Recorder	0.00	6772	Inside	4006.00	
Perforations	2.00			4008.00	
Change Over Sub	1.00			4009.00	
Drill Pipe	30.00			4039.00	
Change Over Sub	1.00			4040.00	
Recorder	0.00	7437	Outside	4040.00	
Bullnose	5.00			4045.00	40.00 Bottom Packers & Anchor

Total Tool Length: 62.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23117

DST#: 1

ATTN: Brad Rine

Test Start: 2006.07.26 @ 21:01:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.69 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
92.00	MCW 5%M 95%M	0.452
1272.00	MCW 90%W 10%M	17.843
186.00	WCM 30%W 70%M	2.609
186.00	OCWM 5%O 15%W 80%M	2.609

Total Length: 1736.00 ft

Total Volume: 23.513 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

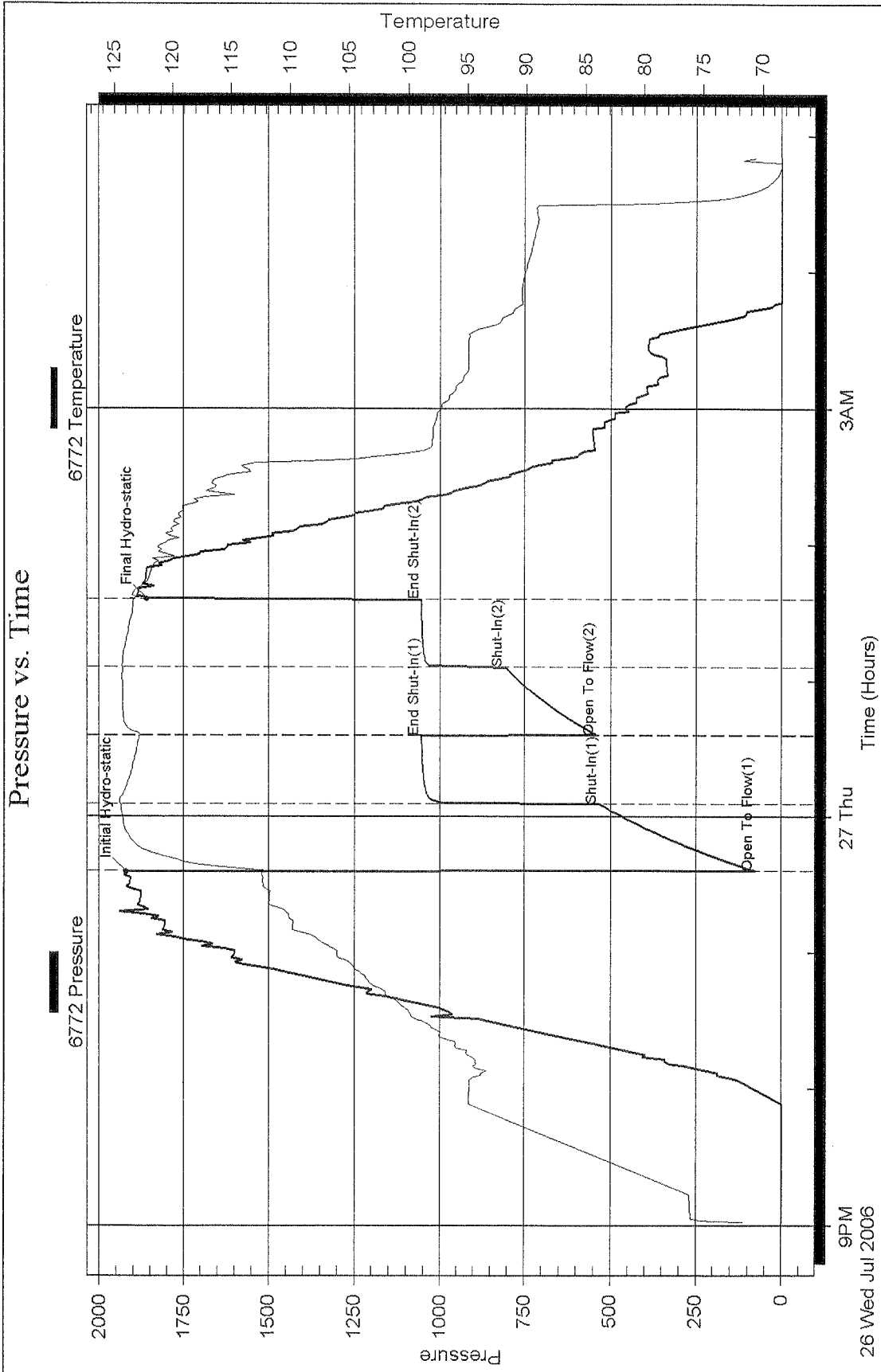
Serial #: 6772

Inside

Ritchie Exploration Inc

33 17S30W Lane KS

DST Test Number: 1



26 Wed Jul 2006 9PM

27 Thu

3AM

Time (Hours)

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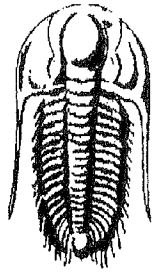
OCT 27 2006

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Ritchie Testing, Inc

Ref. No: 23117

Printed: 2006.08.03 @ 10:38:13 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.07.28 @ 01:51:39

End Date: 2006.07.28 @ 10:15:48

Job Ticket #: 23118 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Exploration Inc

Sharp 33B #1

33 17S30W Lane KS

DST # 2

LKC-J

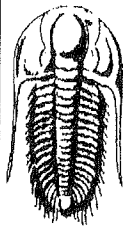
2006.07.28

Printed: 2006.08.03 @ 10:38:32 Page

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

Sharp 33B #1

33 17S30W Lane KS

Job Ticket: 23118

DST#: 2

Test Start: 2006.07.28 @ 01:51:39

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:49

Time Test Ended: 10:15:48

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4177.00 ft (KB) To 4193.00 ft (KB) (TVD)**

Total Depth: 4193.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2875.00 ft (KB)

2870.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 118.71 psig @ 4178.00 ft (KB)

Start Date: 2006.07.28

End Date:

2006.07.28

Start Time: 01:51:39

End Time:

10:15:48

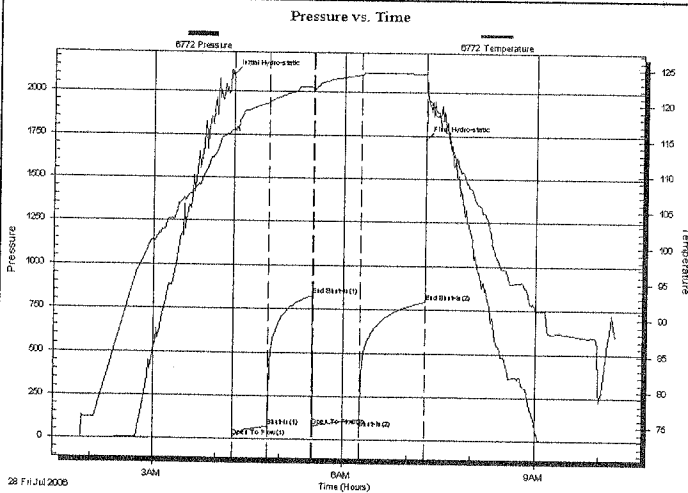
Capacity: 7000.00 psig

Last Calib.: 2006.07.28

Time On Btm: 2006.07.28 @ 04:15:34

Time Off Btm: 2006.07.28 @ 07:16:33

TEST COMMENT: IF 1/4 blow built to 6 in 30 min
IS No return
FF Surface blow built to 5 in 45 min
FS No retrun



PRESSURE SUMMARY

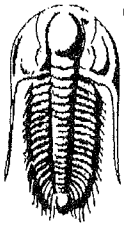
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.77	116.29	Initial Hydro-static
1	14.63	115.99	Open To Flow (1)
34	75.73	120.21	Shut-In(1)
76	828.15	122.38	End Shut-In(1)
76	78.14	122.01	Open To Flow (2)
120	118.71	124.15	Shut-In(2)
181	795.19	124.32	End Shut-In(2)
181	1726.27	124.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02
243.00	MCW 95%W 5%M	2.62

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23118

DST#: 2

ATTN: Brad Rine

Test Start: 2006.07.28 @ 01:51:39

Tool Information

Drill Pipe:	Length: 4069.00 ft	Diameter: 3.80 inches	Volume: 57.08 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume: 57.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	4177.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

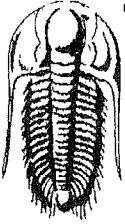
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4156.00	
Shut In Tool	5.00			4161.00	
Hydraulic tool	5.00			4166.00	
Safety Joint	2.00			4168.00	
Packer	5.00			4173.00	22.00 Bottom Of Top Packer
Packer	4.00			4177.00	
Stubb	1.00			4178.00	
Recorder	0.00	6772	Inside	4178.00	
Perforations	10.00			4188.00	
Recorder	0.00	7437	Outside	4188.00	
Bullhose	5.00			4193.00	16.00 Bottom Packers & Anchor

Total Tool Length: 38.00

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23118

DST#: 2

ATTN: Brad Rine

Test Start: 2006.07.28 @ 01:51:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	100%M	0.025
243.00	MCW 95%W 5%M	2.616

Total Length: 248.00 ft

Total Volume: 2.641 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

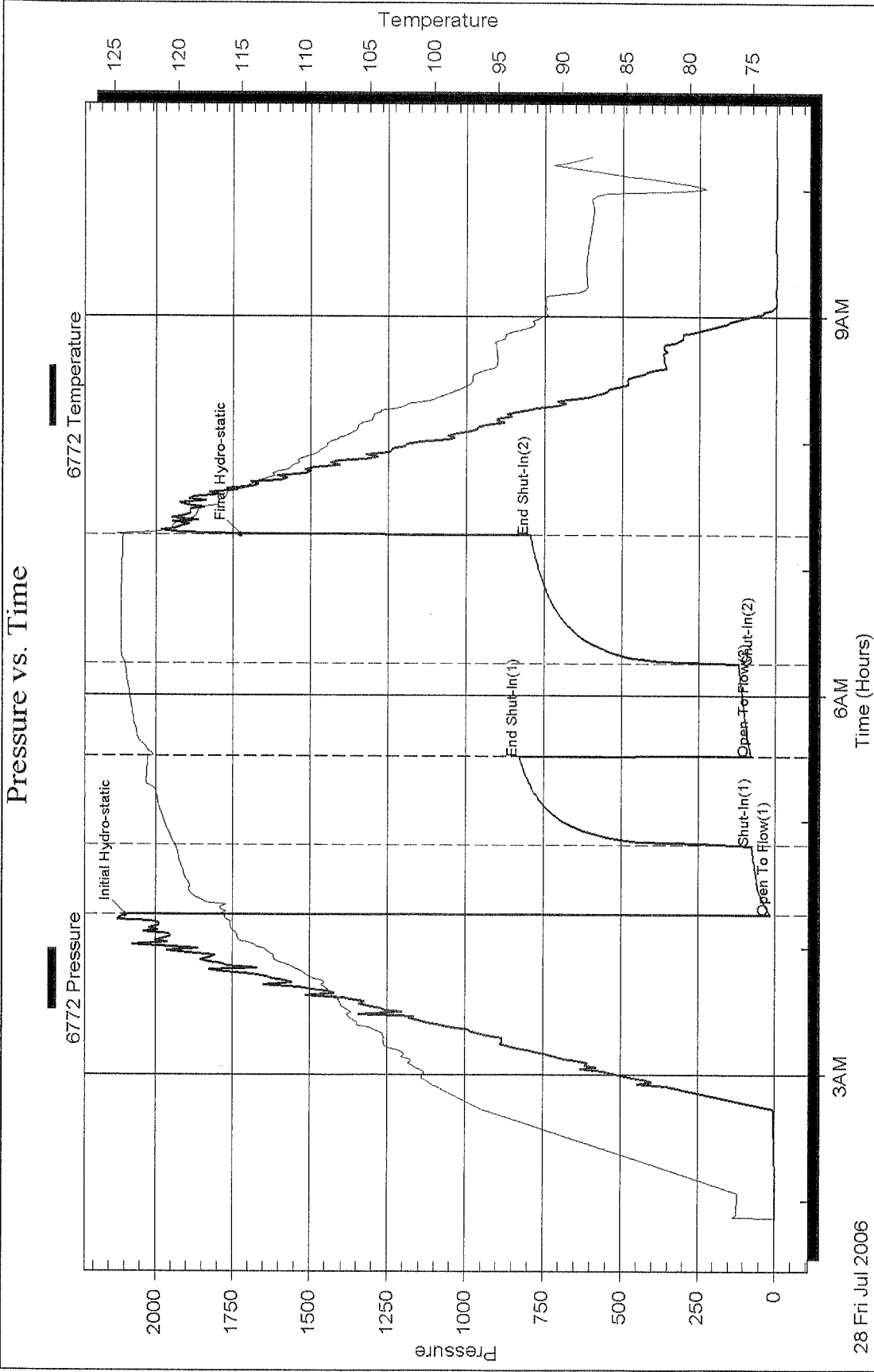
Serial #:

Laboratory Name:

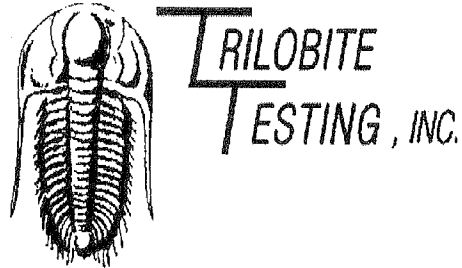
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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 KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.07.29 @ 11:05:12

End Date: 2006.07.29 @ 19:45:07

Job Ticket #: 23119 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Ritchie Exploration Inc

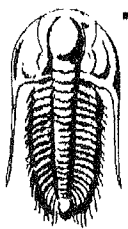
Sharp 33B #1

33 17S30W Lane KS

DST # 3

LKC-K

2006.07.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23119

DST#: 3

ATTN: Brad Rine

Test Start: 2006.07.29 @ 11:05:12

GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:37

Time Test Ended: 19:45:07

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4197.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Reference Elevations: 2875.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 261.16 psig @ 4198.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.07.29

End Date:

2006.07.29

Last Calib.:

2006.07.29

Start Time: 11:05:12

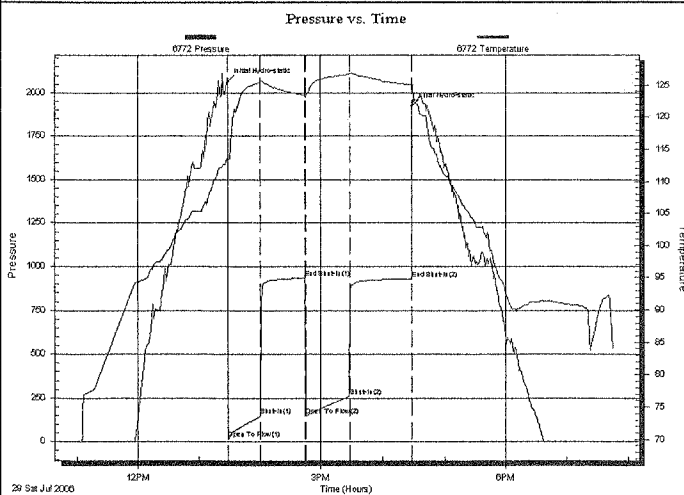
End Time:

19:45:07

Time On Btm: 2006.07.29 @ 13:28:22

Time Off Btm: 2006.07.29 @ 16:28:36

TEST COMMENT: IF: 1/4 blow BOB in 15 min.
IS: No return.
FF: 1/4 blow BOB in 22 min.
FS: No return.



PRESSURE SUMMARY

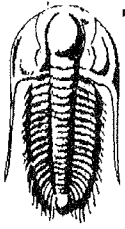
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.61	113.72	Initial Hydro-static
1	16.40	113.01	Open To Flow (1)
33	147.85	125.43	Shut-In(1)
77	933.76	123.41	End Shut-In(1)
77	147.72	123.20	Open To Flow (2)
120	261.16	126.69	Shut-In(2)
180	930.36	125.05	End Shut-In(2)
181	1923.11	125.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 95%w 5%m	3.51
243.00	mcw 70%w 30%m	3.41
5.00	free oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23119

DST#: 3

ATTN: Brad Rine

Test Start: 2006.07.29 @ 11:05:12

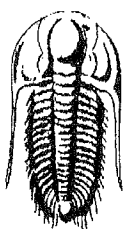
Tool Information

Drill Pipe:	Length: 4099.00 ft	Diameter: 3.80 inches	Volume: 57.50 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4197.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4176.00	
Shut In Tool	5.00			4181.00	
Hydraulic tool	5.00			4186.00	
Safety Joint	2.00			4188.00	
Packer	5.00			4193.00	22.00 Bottom Of Top Packer
Packer	4.00			4197.00	
Stubb	1.00			4198.00	
Recorder	0.00	6772	Inside	4198.00	
Perforations	17.00			4215.00	
Recorder	0.00	7437	Outside	4215.00	
Bullnose	5.00			4220.00	23.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23119

DST#: 3

ATTN: Brad Rine

Test Start: 2006.07.29 @ 11:05:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 95%w 5%m	3.510
243.00	mcw 70%w 30%m	3.409
5.00	free oil	0.070

Total Length: 558.00 ft

Total Volume: 6.989 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

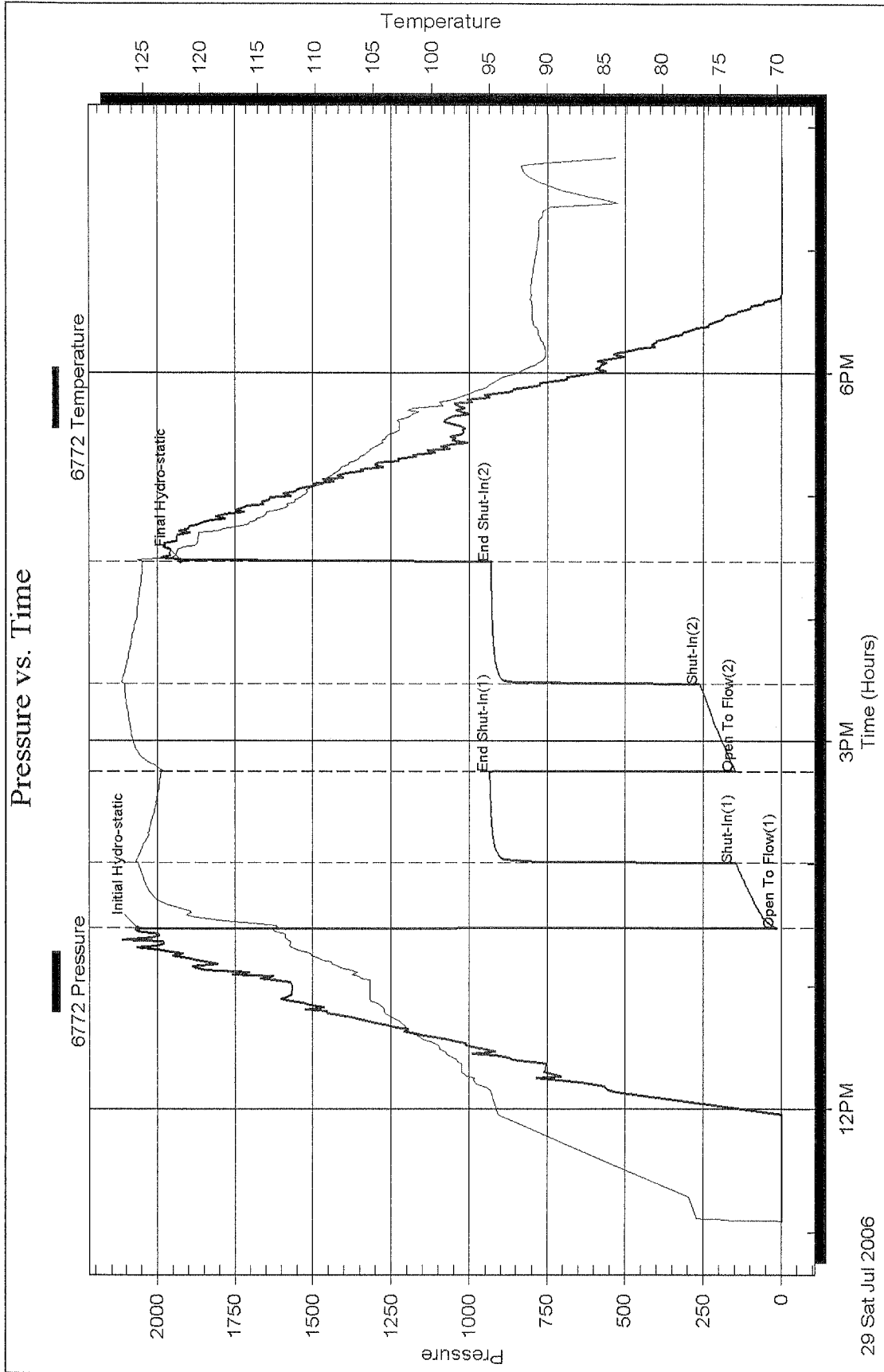
Inside

Ritchie Exploration Inc

33 17S30W Lane KS

DST Test Number: 3

Pressure vs. Time



29 Sat Jul 2006

12PM

3PM

6PM

Time (Hours)

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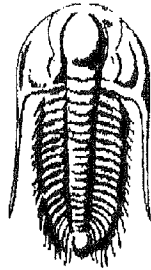
OCT 27 2006

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Microbite Testing, Inc

Ref. No: 23119

Printed: 2006.08.03 @ 10:38:58 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.07.30 @ 06:03:35

End Date: 2006.07.30 @ 17:10:15

Job Ticket #: 23120 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Ritchie Exploration Inc

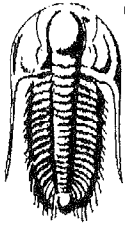
Sharp 33B #1

33 17S30W Lane KS

DST # 4

LKC-L

2006.07.30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

Sharp 33B #1

33 17S30W Lane KS

Job Ticket: 23120

DST#: 4

Test Start: 2006.07.30 @ 06:03:35

GENERAL INFORMATION:

Formation: **LKC-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:35:30

Time Test Ended: 17:10:15

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4238.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 2875.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 841.86 psig @ 4239.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.07.30

End Date:

2006.07.30

Last Calib.:

2006.07.30

Start Time: 06:03:35

End Time:

17:10:15

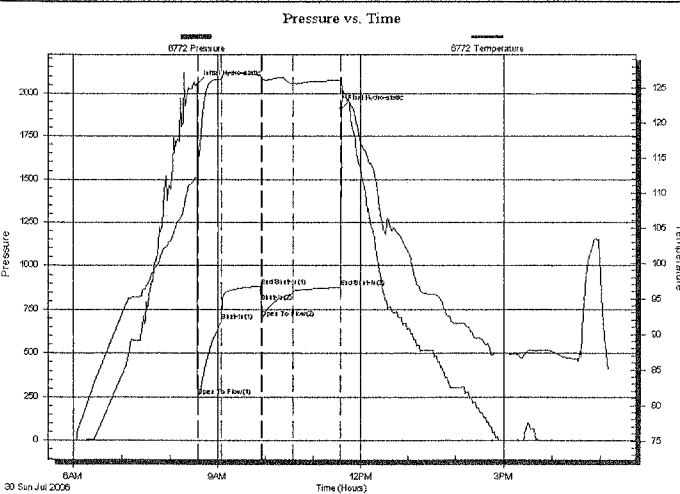
Time On Btm:

2006.07.30 @ 08:34:15

Time Off Btm:

2006.07.30 @ 11:34:29

TEST COMMENT: IF BOB in 1 min
IS 1/4 blow built to 3 died in 32 min
FF BOB in 4 min
FS No return



PRESSURE SUMMARY

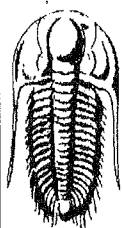
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.10	112.25	Initial Hydro-static
2	252.88	114.89	Open To Flow (1)
31	682.08	126.17	Shut-In(1)
80	884.49	126.76	End Shut-In(1)
81	699.85	126.47	Open To Flow (2)
120	841.86	125.60	Shut-In(2)
180	877.10	126.00	End Shut-In(2)
181	1910.94	126.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	OCWM 5%O 65%W 30%M	3.51
124.00	OCWM 20%O 40%W 40%M	1.74
124.00	WCGO 20%G 60%O 20%W	1.74
1776.00	GO 10%G 90%O	24.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23120

DST#: 4

ATTN: Brad Rine

Test Start: 2006.07.30 @ 06:03:35

Tool Information

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 58.40 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4238.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

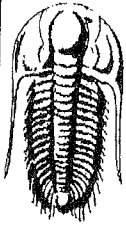
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4217.00	
Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00			4227.00	
Safety Joint	2.00			4229.00	
Packer	5.00			4234.00	22.00 Bottom Of Top Packer
Packer	4.00			4238.00	
Stubb	1.00			4239.00	
Recorder	0.00	6772	Inside	4239.00	
Perforations	3.00			4242.00	
Change Over Sub	1.00			4243.00	
Drill Pipe	31.00			4274.00	
Change Over Sub	1.00			4275.00	
Recorder	0.00	7437	Outside	4275.00	
Bullnose	5.00			4280.00	42.00 Bottom Packers & Anchor

Total Tool Length: 64.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23120

DST#: 4

ATTN: Brad Rine

Test Start: 2006.07.30 @ 06:03:35

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 0.00 ohm.m

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbbl

psig

Oil API:

Water Salinity:

32 deg API

31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	OCWM 5%O 65%W 30%M	3.510
124.00	OCWM 20%O 40%W 40%M	1.739
124.00	WCGO 20%G 60%O 20%W	1.739
1776.00	GO10%G 90%O	24.913

Total Length: 2334.00 ft

Total Volume: 31.901 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

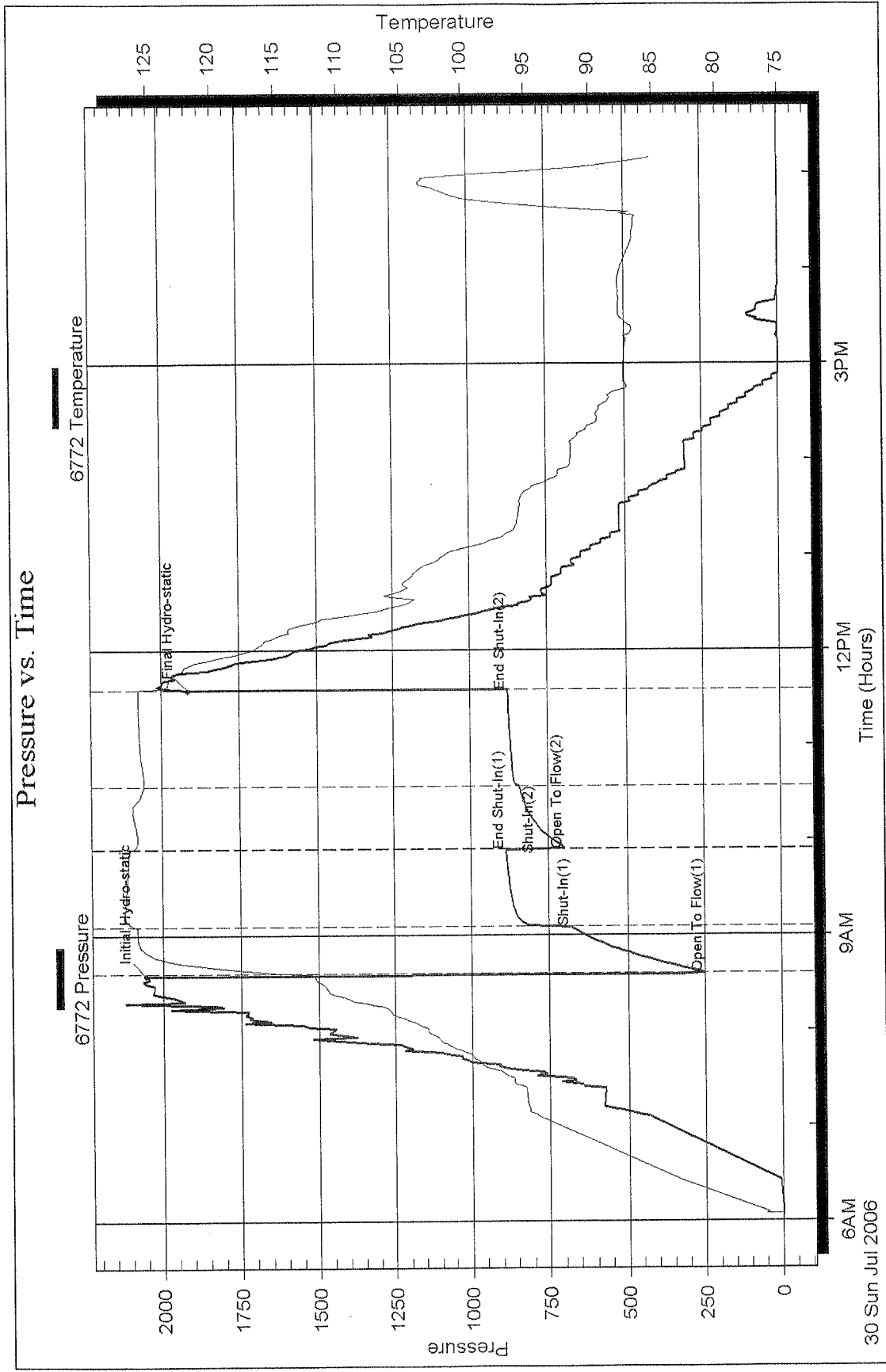
33 17S30W Lane KS

Ritchie Exploration Inc

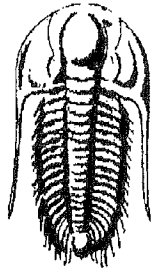
Inside

Serial #: 6772

Pressure vs. Time



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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.07.31 @ 10:25:14

End Date: 2006.07.31 @ 20:12:54

Job Ticket #: 23121 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Exploration Inc

Sharp 33B #1

33 17S30W Lane KS

DST # 5

Altamont

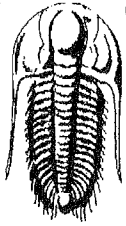
2006.07.31

Printed: 2006.08.03 @ 10:39:25

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

Sharp 33B #1

33 17S30W Lane KS

Job Ticket: 23121

DST#: 5

Test Start: 2006.07.31 @ 10:25:14

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:58:24
 Time Test Ended: 20:12:54
 Interval: **4327.00 ft (KB) To 4370.00 ft (KB) (TVD)**
 Total Depth: 4370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

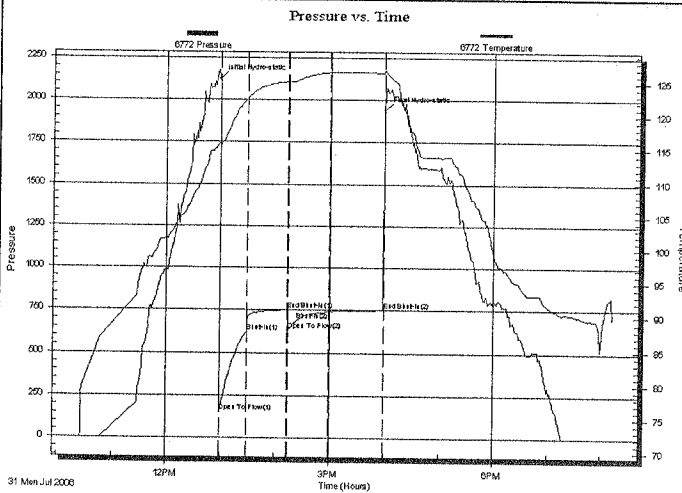
Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 2875.00 ft (KB)
 2870.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Press@RunDepth: 740.66 psig @ 4328.00 ft (KB)
 Start Date: 2006.07.31 End Date: 2006.07.31
 Start Time: 10:25:14 End Time: 20:12:54

Capacity: 7000.00 psig
 Last Calib.: 2006.07.31
 Time On Btm: 2006.07.31 @ 12:58:09
 Time Off Btm: 2006.07.31 @ 15:59:38

TEST COMMENT: IF BOB 1 1/2 min
 IS Weak Surface blow built to 1/4 in 45 min
 FF BOB in 5 min
 FS No return



PRESSURE SUMMARY

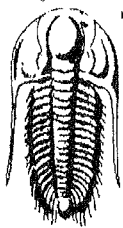
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.61	115.95	Initial Hydro-static
1	155.21	115.08	Open To Flow (1)
31	624.34	122.64	Shut-In (1)
76	750.90	125.12	End Shut-In (1)
76	631.52	125.09	Open To Flow (2)
122	740.66	126.51	Shut-In (2)
181	750.47	126.43	End Shut-In (2)
182	1939.80	126.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 95%W 5%M	0.90
1240.00	OCMW 5%O 85%W 10%M	17.39
216.00	GOCWM 10%G 10%O 10%W 70%M	3.03
20.00	Fee Oil 100%O	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23121

DST#: 5

ATTN: Brad Rine

Test Start: 2006.07.31 @ 10:25:14

Tool Information

Drill Pipe:	Length: 4225.00 ft	Diameter: 3.80 inches	Volume: 59.27 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4327.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

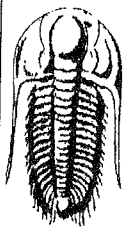
Tool Comments:

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

Stubb	1.00			4306.00	
Shut In Tool	5.00			4311.00	
Hydraulic tool	5.00			4316.00	
Safety Joint	2.00			4318.00	
Packer	5.00			4323.00	22.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	6772	Inside	4328.00	
Perforations	3.00			4331.00	
Change Over Sub	1.00			4332.00	
Drill Pipe	32.00			4364.00	
Change Over Sub	1.00			4365.00	
Recorder	0.00	7437	Outside	4365.00	
Bullnose	5.00			4370.00	43.00 Bottom Packers & Anchor

Total Tool Length: 65.00

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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23121

DST#: 5

ATTN: Brad Rine

Test Start: 2006.07.31 @ 10:25:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.17 in³

Resistivity: 0.00 ohm.m

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

31 deg API

49000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW 95%W 5%M	0.901
1240.00	OCMW 5%O 85%W 10%M	17.394
216.00	GOCWM 10%G 10%O 10%W 70%M	3.030
20.00	Fee Oil 100%O	0.281

Total Length: 1600.00 ft

Total Volume: 21.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

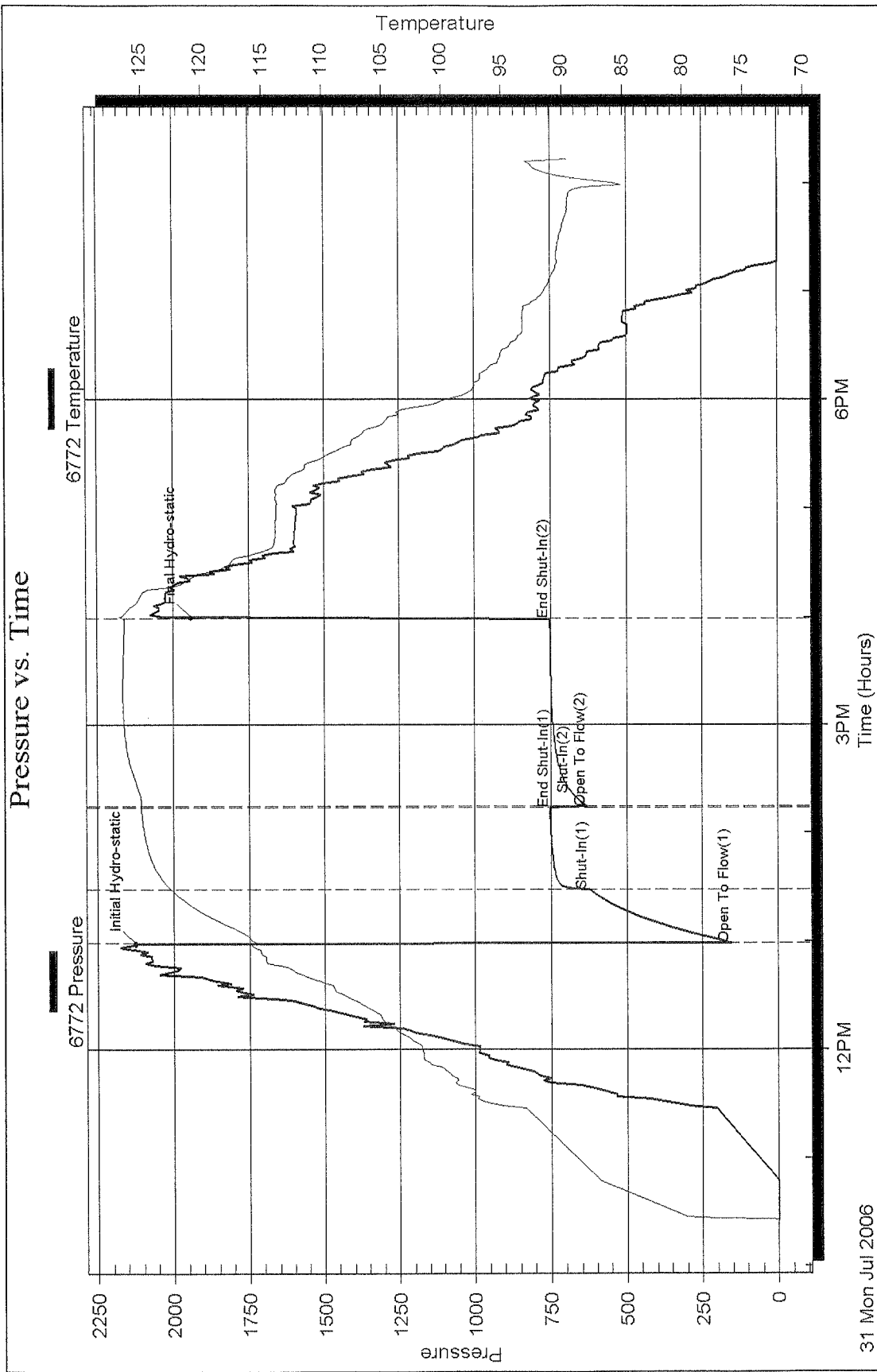
DST Test Number: 5

33 17S30W Lane KS

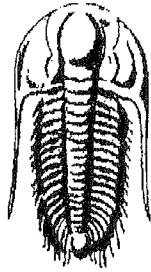
Richie Exploration Inc

Inside

Serial #: 6772



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Brad Rine

33 17S30W Lane KS

Sharp 33B #1

Start Date: 2006.08.01 @ 19:25:17

End Date: 2006.08.02 @ 03:44:56

Job Ticket #: 23122 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Printed: 2006.08.03 @ 10:39:41 Page 1

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Ritchie Exploration Inc

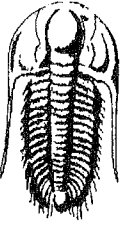
Sharp 33B #1

33 17S30W Lane KS

DST # 6

Johnson

2006.08.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

ATTN: Brad Rine

Job Ticket: 23122

DST#: 6

Test Start: 2006.08.01 @ 19:25:17

GENERAL INFORMATION:

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

Time Tool Opened: 23:03:42

Time Test Ended: 03:44:56

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4464.00 ft (KB) To 4545.00 ft (KB) (TVD)**

Total Depth: 4545.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2875.00 ft (KB)

2870.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 29.62 psig @ 4465.00 ft (KB)

Start Date: 2006.08.01

End Date:

2006.08.02

Capacity: 7000.00 psig

Start Time: 19:25:17

End Time:

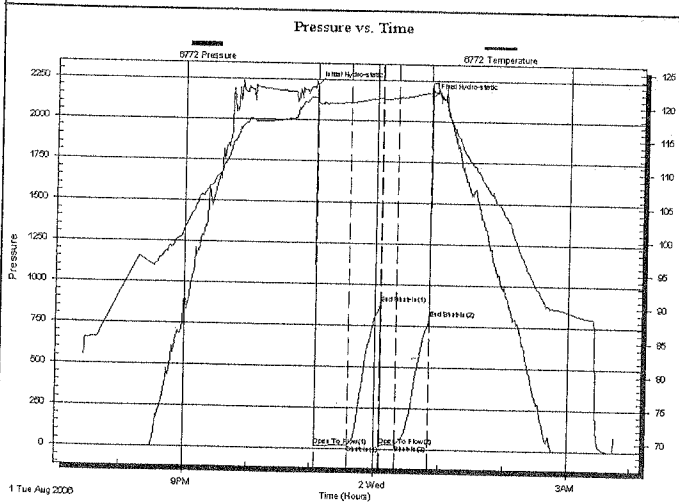
03:44:56

Last Calib.: 2006.08.02

Time On Btm: 2006.08.01 @ 23:03:27

Time Off Btm: 2006.08.02 @ 00:50:26

TEST COMMENT: IF Surface blow died in 8 min
IS No return
FF No blow
FS No return



PRESSURE SUMMARY

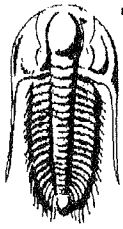
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.40	121.10	Initial Hydro-static
1	18.37	120.54	Open To Flow (1)
32	24.73	120.40	Shut-In (1)
61	884.16	121.14	End Shut-In (1)
62	26.85	120.91	Open To Flow (2)
76	29.62	121.13	Shut-In (2)
107	798.88	122.05	End Shut-In (2)
107	2152.30	122.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #1

PO Box 783188
Wichita KS 67278

33 17S30W Lane KS

Job Ticket: 23122

DST#: 6

ATTN: Brad Rine

Test Start: 2006.08.01 @ 19:25:17

Tool Information

Drill Pipe:	Length: 4380.00 ft	Diameter: 3.80 inches	Volume: 61.44 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 92.00 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4464.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

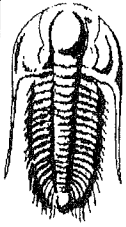
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4443.00	
Shut In Tool	5.00			4448.00	
Hydraulic tool	5.00			4453.00	
Safety Joint	2.00			4455.00	
Packer	5.00			4460.00	22.00 Bottom Of Top Packer
Packer	4.00			4464.00	
Stubb	1.00			4465.00	
Recorder	0.00	6772	Inside	4465.00	
Perforations	10.00			4475.00	
Change Over Sub	1.00			4476.00	
Drill Pipe	63.00			4539.00	
Change Over Sub	1.00			4540.00	
Recorder	0.00	7437	Outside	4540.00	
Bullnose	5.00			4545.00	81.00 Bottom Packers & Anchor

Total Tool Length: 103.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278
ATTN: Brad Rine

Sharp 33B #1
33 17S30W Lane KS
Job Ticket: 23122 **DST#: 6**
Test Start: 2006.08.01 @ 19:25:17

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.39 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%M	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:

Serial #: 6772

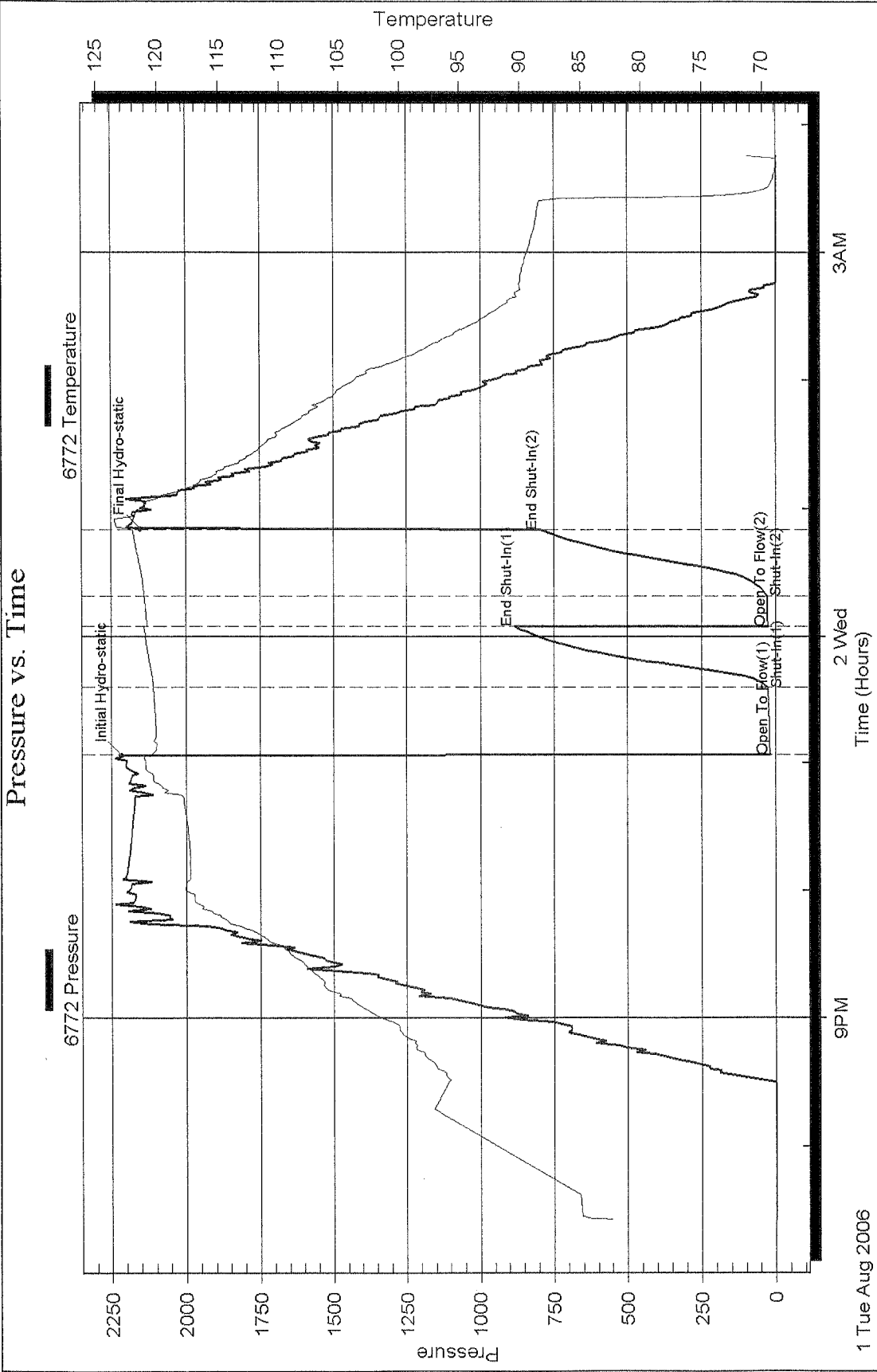
Inside

Ritchie Exploration Inc

33 17S30W Lane KS

DST Test Number: 6

Pressure vs. Time



1 Tue Aug 2006 9PM

2 Wed 3AM

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Micro Testing, Inc

Ref. No: 23122

Printed: 2006.08.03 @ 10:39:42 Page 5