

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

33 17 30 Lane KS

Sharp 33B #2

Start Date: 2006.11.01 @ 07:15:47

End Date: 2006.11.01 @ 15:25:56

Job Ticket #: 25529 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25529

DST#: 1

Test Start: 2006.11.01 @ 07:15:47

GENERAL INFORMATION:

Formation: **LKC-I**

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

Time Tool Opened: 09:54:42

Time Test Ended: 15:25:56

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4145.00 ft (KB) To 4177.00 ft (KB) (TVD)**

Total Depth: **4177.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**

2870.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **54.90 psig @ 4146.00 ft (KB)**

Start Date: **2006.11.01**

End Date:

2006.11.01

Capacity: **7000.00 psig**

Last Calib.: **2006.11.01**

Start Time: **07:15:47**

End Time:

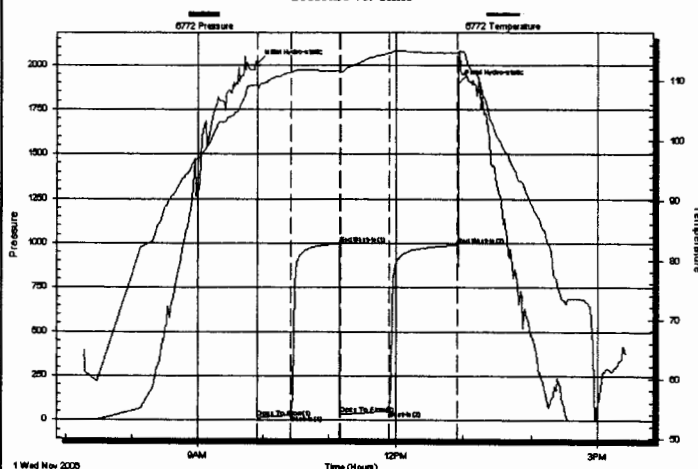
15:25:56

Time On Btm: **2006.11.01 @ 09:54:27**

Time Off Btm: **2006.11.01 @ 12:55:41**

TEST COMMENT: IF Surface blow built to 4 in 30 min.
IS No return
FF Surface blow built to 5 in 45 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.38	109.15	Initial Hydro-static
1	13.31	108.71	Open To Flow (1)
31	29.61	111.41	Shut-In(1)
75	997.09	111.65	End Shut-In(1)
76	32.99	111.46	Open To Flow (2)
120	54.90	114.62	Shut-In(2)
181	989.31	114.64	End Shut-In(2)
182	1896.70	114.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 20%O 80%M	0.15
90.00	GO 10%G 90%O	0.44

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

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25529

DST#:1

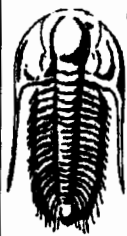
Test Start: 2006.11.01 @ 07:15:47

Tool Information

Drill Pipe:	Length: 3977.00 ft	Diameter: 3.80 inches	Volume: 55.79 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: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 88000.00 lb
		Total Volume: 56.67 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4145.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			4126.00	
Shut In Tool	5.00			4131.00	
Hydraulic tool	5.00			4136.00	
Packer	5.00			4141.00	20.00 Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	6772	Inside	4146.00	
Perforations	26.00			4172.00	
Recorder	0.00	7437	Outside	4172.00	
Bullnose	5.00			4177.00	32.00 Bottom Packers & Anchor
Total Tool Length:		52.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25529

DST#: 1

ATTN: Roger Fisher

Test Start: 2006.11.01 @ 07:15:47

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.36 in³

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
30.00	OCM 20%O 80%M	0.148
90.00	GO 10%G 90%O	0.443

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:

DST Test Number: 1

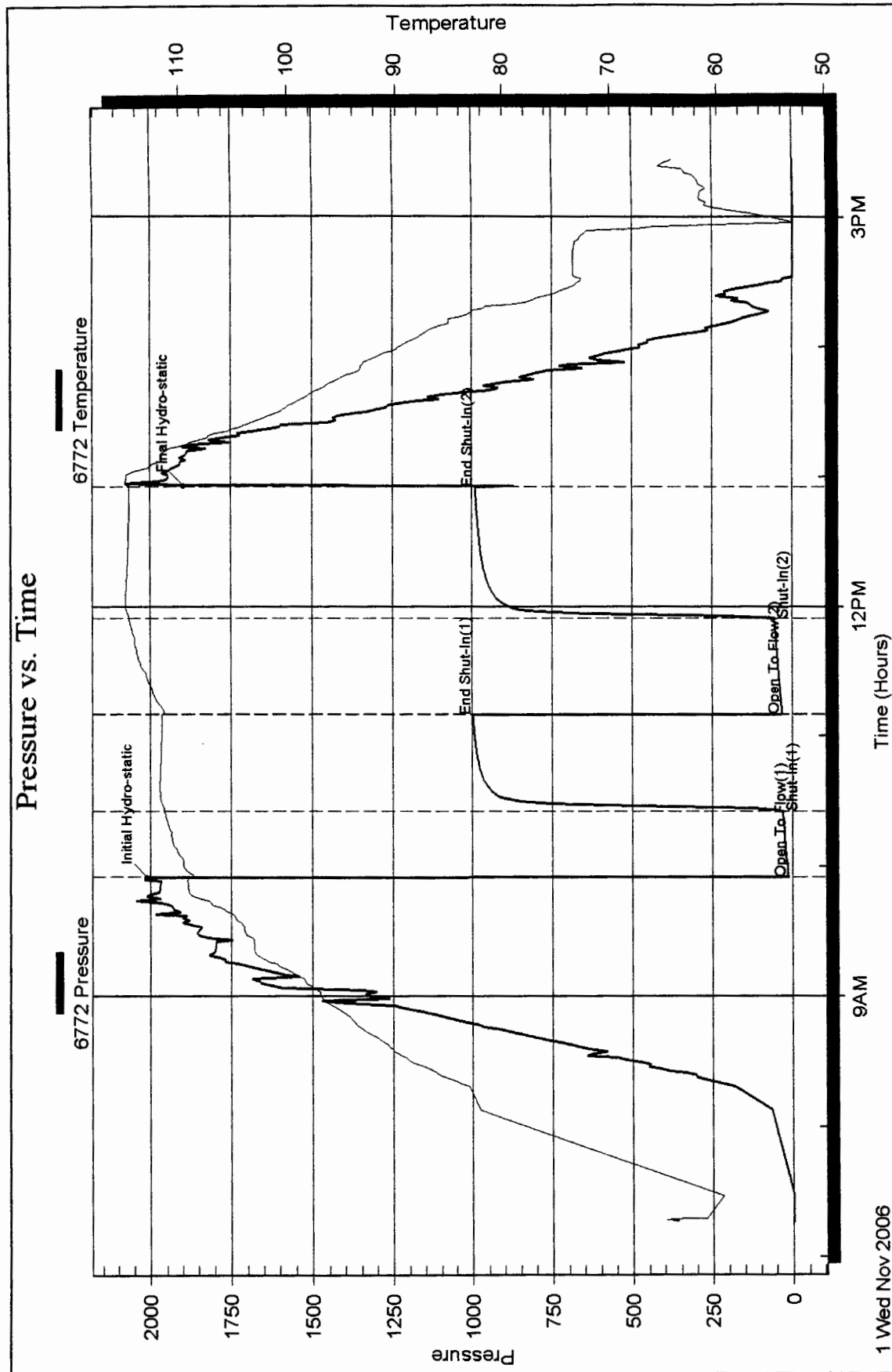
33 17 30 Lane KS

Richie Exploration Inc

Inside

Serial #: 6772

Pressure vs. Time



Ref. No: 25529

Trilobite Testing, Inc

Printed: 2006.11.08 @ 13:53:05 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

33 17 30 Lane KS

Sharp 33B #2

Start Date: 2006.11.01 @ 23:30:46

End Date: 2006.11.02 @ 07:02:10

Job Ticket #: 25530 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

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25530

DST#: 2

Test Start: 2006.11.01 @ 23:30:46

GENERAL INFORMATION:

Formation: **LKC- J**

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

Time Tool Opened: 01:23:41

Time Test Ended: 07:02:10

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4179.00 ft (KB) To 4199.00 ft (KB) (TVD)**

Total Depth: **4199.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**

2870.00 ft (CF)

KB to GRVCF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **124.74 psig @ 4180.00 ft (KB)**

Start Date: **2006.11.01**

End Date:

2006.11.02

Capacity: **7000.00 psig**

Last Calib.: **2006.11.02**

Start Time: **23:30:46**

End Time:

07:02:10

Time On Btm: **2006.11.02 @ 01:23:26**

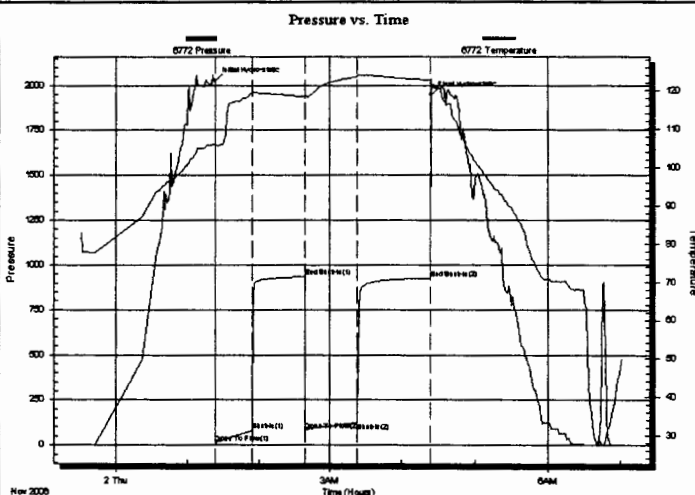
Time Off Btm: **2006.11.02 @ 04:24:10**

TEST COMMENT: IF 1/4 blow built to 5 in 30 min.

IS No return

FF 1/4 blow built to 7 in 45 min.

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.40	106.08	Initial Hydro-static
1	12.59	105.50	Open To Flow (1)
31	79.80	119.36	Shut-In(1)
76	934.53	118.70	End Shut-In(1)
77	83.21	118.51	Open To Flow (2)
120	124.74	123.75	Shut-In(2)
181	927.28	122.80	End Shut-In(2)
181	1945.43	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 80%W 20%M	0.59
120.00	MCW 60%W 40%M	1.15
62.00	MCO 95%O 5%M	0.87

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

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25530

DST#: 2

ATTN: Roger Fisher

Test Start: 2006.11.01 @ 23:30:46

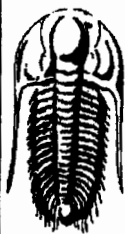
Tool Information

Drill Pipe:	Length: 4008.00 ft	Diameter: 3.80 inches	Volume: 56.22 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: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 57.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4179.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4160.00	
Shut In Tool	5.00			4165.00	
Hydraulic tool	5.00			4170.00	
Packer	5.00			4175.00	20.00 Bottom Of Top Packer
Packer	4.00			4179.00	
Stubb	1.00			4180.00	
Recorder	0.00	6772	Inside	4180.00	
Perforations	14.00			4194.00	
Recorder	0.00	7437	Outside	4194.00	
Bullnose	5.00			4199.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25530

DST#: 2

ATTN: Roger Fisher

Test Start: 2006.11.01 @ 23:30:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

61000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW 80%W 20%M	0.590
120.00	MCW 60%W 40%M	1.155
62.00	MCO 95%O 5%M	0.870

Total Length: 302.00 ft

Total Volume: 2.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

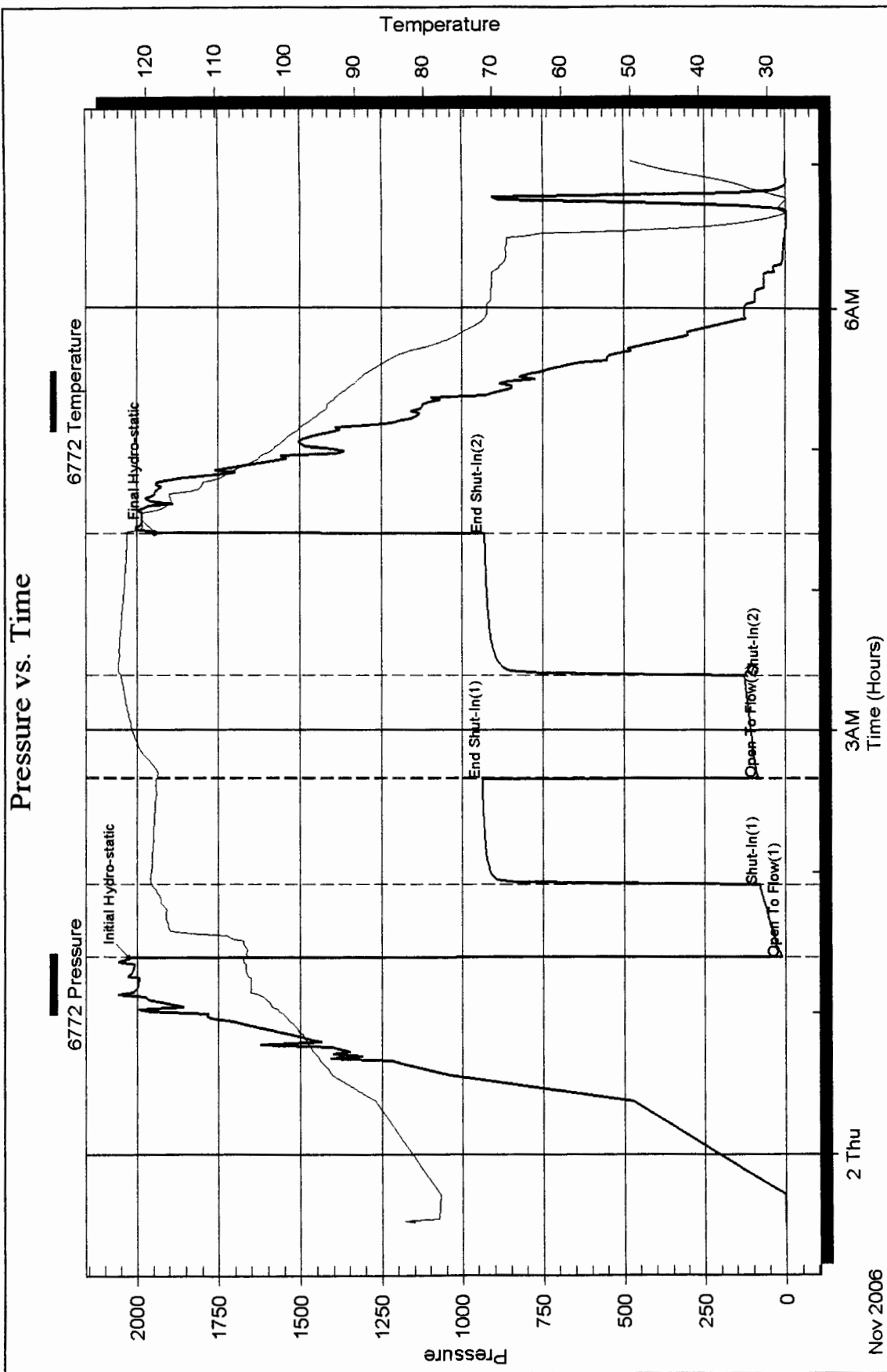
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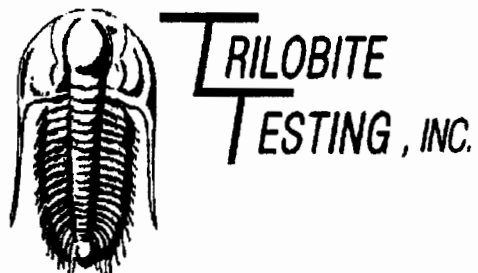
Inside

Ritchie Exploration Inc

33 17 30 Lane KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

33 17 30 Lane KS

Sharp 33B #2

Start Date: 2006.11.02 @ 19:55:21

End Date: 2006.11.03 @ 03:43:30

Job Ticket #: 25531 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25531

DST#: 3

Test Start: 2006.11.02 @ 19:55:21

GENERAL INFORMATION:

Formation: **LKC-L**

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

Time Tool Opened: 22:20:16

Time Test Ended: 03:43:30

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4247.00 ft (KB) To 4280.00 ft (KB) (TVD)**

Total Depth: **4280.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**

2870.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **46.19 psig @ 4248.00 ft (KB)**

Start Date: **2006.11.02**

End Date:

2006.11.03

Capacity: **7000.00 psig**

Last Calib.: **2006.11.03**

Start Time: **19:55:21**

End Time:

03:43:30

Time On Btm: **2006.11.02 @ 22:20:01**

Time Off Btm: **2006.11.03 @ 01:21:30**

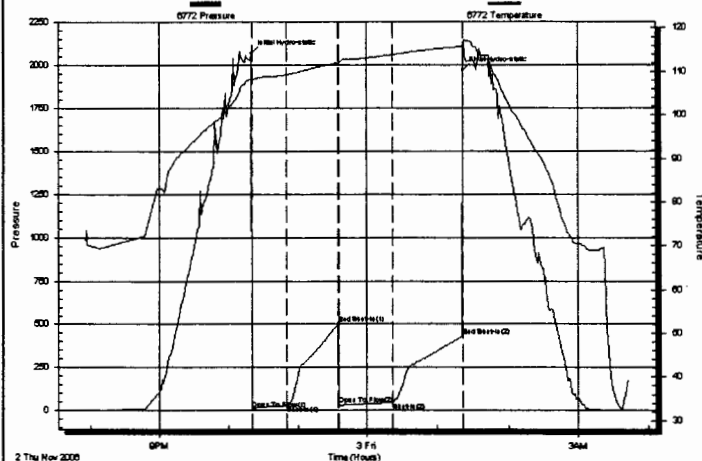
TEST COMMENT: IF 1/4 blow built to 2 in 30 min.

IS No return

FF Surface blow built to 2 1/2 in 45 min.

FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.00	108.43	Initial Hydro-static
1	9.61	107.23	Open To Flow (1)
31	27.98	109.32	Shut-In(1)
76	502.83	111.94	End Shut-In(1)
76	33.75	112.00	Open To Flow (2)
122	46.19	113.88	Shut-In(2)
182	431.13	115.69	End Shut-In(2)
182	1969.57	116.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 20%O 80%M	0.15
60.00	GO 10%G 90%O	0.30

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

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25531

DST#: 3

ATTN: Roger Fisher

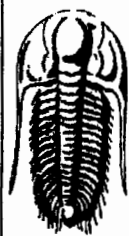
Test Start: 2006.11.02 @ 19:55:21

Tool Information

Drill Pipe:	Length: 4071.00 ft	Diameter: 3.80 inches	Volume: 57.11 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: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 57.99 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4247.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 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
Stubb	1.00			4228.00	
Shut In Tool	5.00			4233.00	
Hydraulic tool	5.00			4238.00	
Packer	5.00			4243.00	20.00 Bottom Of Top Packer
Packer	4.00			4247.00	
Stubb	1.00			4248.00	
Recorder	0.00	6772	Inside	4248.00	
Perforations	27.00			4275.00	
Recorder	0.00	7437	Outside	4275.00	
Bullnose	5.00			4280.00	33.00 Bottom Packers & Anchor
Total Tool Length:		53.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25531

DST#: 3

ATTN: Roger Fisher

Test Start: 2006.11.02 @ 19:55:21

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:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 20%O 80%M	0.148
60.00	GO 10%G 90%O	0.295

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

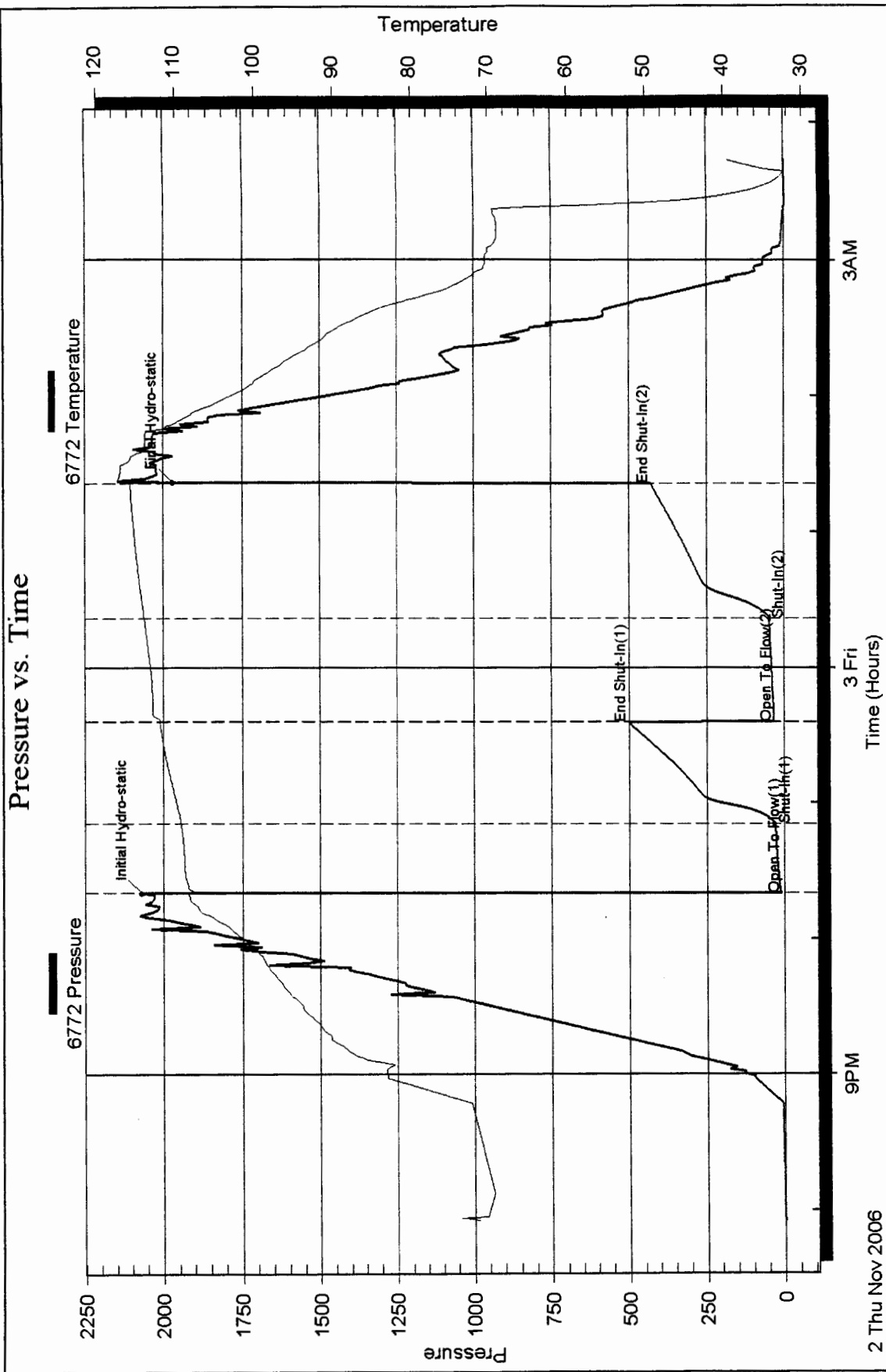
33 17 30 Lane KS

Richie Exploration Inc

Inside

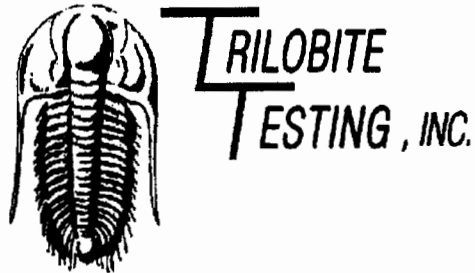
Serial #: 6772

Pressure vs. Time



Ref. No: 25531

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

33 17 30 Lane KS

Sharp 33B #2

Start Date: 2006.11.03 @ 17:02:26

End Date: 2006.11.04 @ 00:44:20

Job Ticket #: 25532 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

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25532

DST#: 4

Test Start: 2006.11.03 @ 17:02:26

GENERAL INFORMATION:

Formation: **Altamont**

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

Time Tool Opened: 19:01:36

Time Test Ended: 00:44:20

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4354.00 ft (KB) To 4373.00 ft (KB) (TVD)**

Total Depth: **4373.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**

2870.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **688.00 psig @ 4355.00 ft (KB)**

Start Date: **2006.11.03**

End Date:

2006.11.04

Capacity: **7000.00 psig**

Last Calib.: **2006.11.04**

Start Time: **17:02:26**

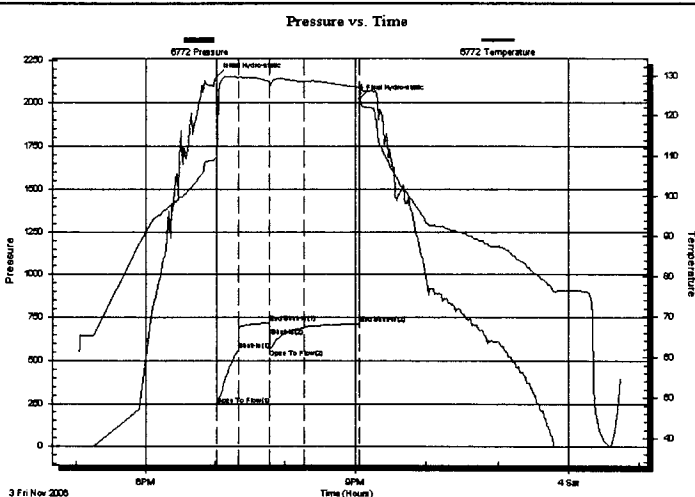
End Time:

00:44:20

Time On Btm: **2006.11.03 @ 19:01:21**

Time Off Btm: **2006.11.03 @ 21:03:51**

TEST COMMENT: IF BOB in 30 sec.
IS BOB in 25 min.
FF BOB in 3 min.
FS Surface blow built to 6 in 45 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.61	109.79	Initial Hydro-static
1	244.02	110.23	Open To Flow (1)
19	562.80	129.49	Shut-In(1)
46	717.62	128.40	End Shut-In(1)
46	565.15	128.30	Open To Flow (2)
75	688.00	128.35	Shut-In(2)
123	712.59	127.02	End Shut-In(2)
123	2021.88	125.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
178.00	MCGO 10%G 70%O 20%M	0.88
868.00	GO 20%G 80%O	12.18
930.00	GO 10%G 90%O	13.05

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

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25532

DST#: 4

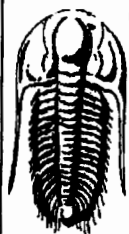
Test Start: 2006.11.03 @ 17:02:26

Tool Information

Drill Pipe:	Length: 4166.00 ft	Diameter: 3.80 inches	Volume: 58.44 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:	25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	59.32 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4354.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	39.00 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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Stubb	1.00			4335.00	
Shut In Tool	5.00			4340.00	
Hydraulic tool	5.00			4345.00	
Packer	5.00			4350.00	20.00 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Recorder	0.00	6772	Inside	4355.00	
Perforations	13.00			4368.00	
Recorder	0.00	7437	Outside	4368.00	
Bullnose	5.00			4373.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25532

DST#: 4

ATTN: Roger Fisher

Test Start: 2006.11.03 @ 17:02:26

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:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
178.00	MCGO 10%G 70%O 20%M	0.875
868.00	GO 20%G 80%O	12.176
930.00	GO10%G 90%O	13.045

Total Length: 1976.00 ft

Total Volume: 26.096 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

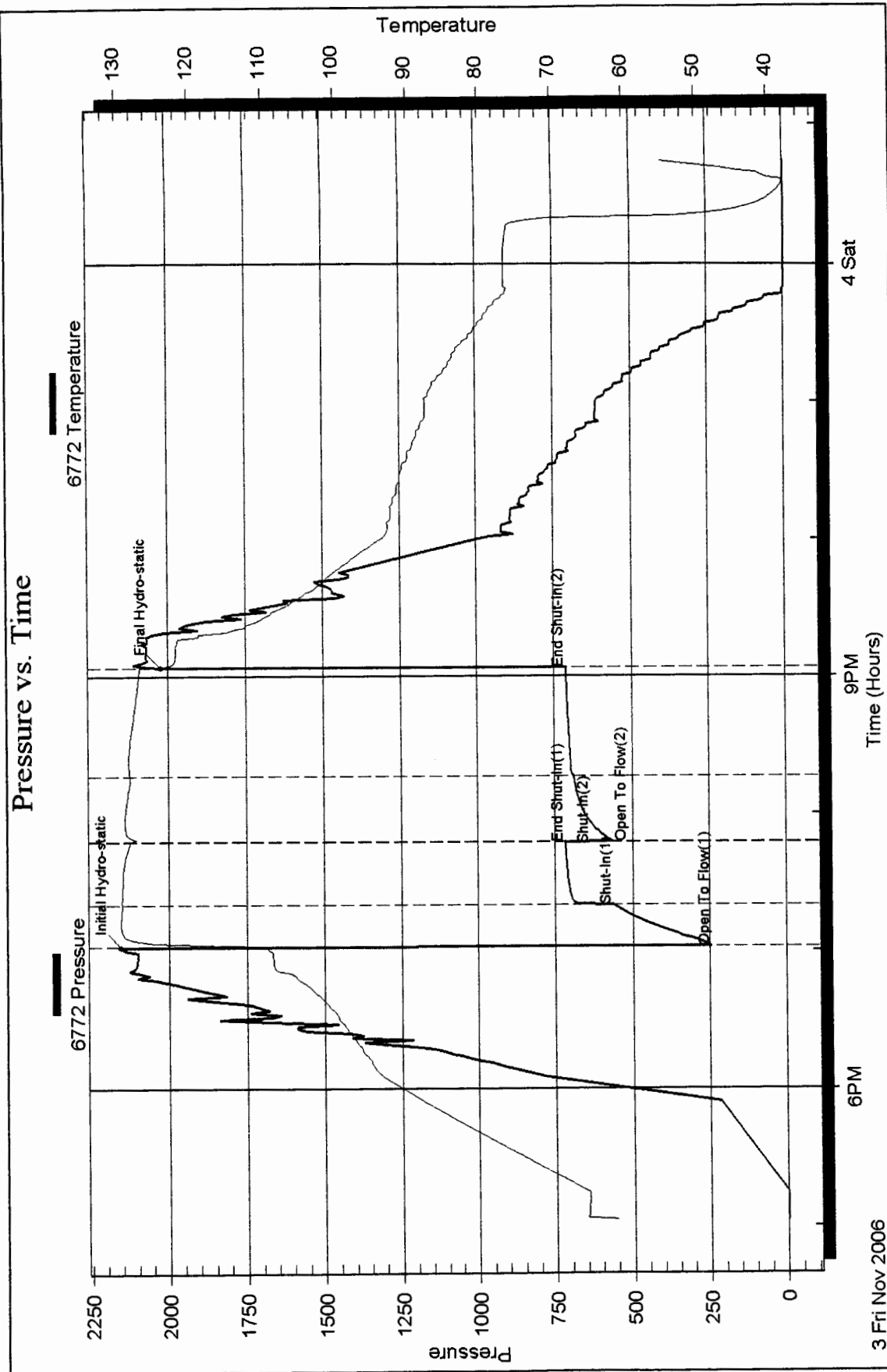
33 17 30 Lane KS

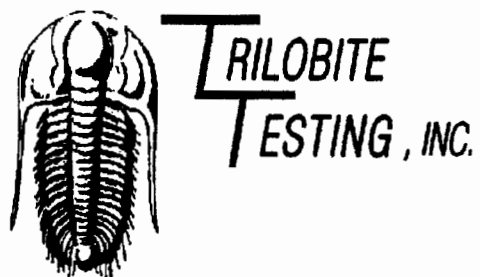
Richie Exploration Inc

Inside

Serial #: 6772

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

33 17 30 Lane KS

Sharp 33B #2

Start Date: 2006.11.04 @ 22:27:52

End Date: 2006.11.05 @ 05:22:01

Job Ticket #: 25533 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

PO Box 783188
Wichita KS 67278

ATTN: Roger Fisher

Sharp 33B #2

33 17 30 Lane KS

Job Ticket: 25533

DST#: 5

Test Start: 2006.11.04 @ 22:27:52

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 00:36:17

Time Test Ended: 05:22:01

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4480.00 ft (KB) To 4555.00 ft (KB) (TVD)**

Total Depth: **4555.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**

2870.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **22.32 psig @ 4481.00 ft (KB)**

Start Date: **2006.11.04**

End Date:

2006.11.05

Start Time: **22:27:52**

End Time:

05:22:01

Capacity: **7000.00 psig**

Last Calib.: **2006.11.05**

Time On Btm: **2006.11.05 @ 00:36:02**

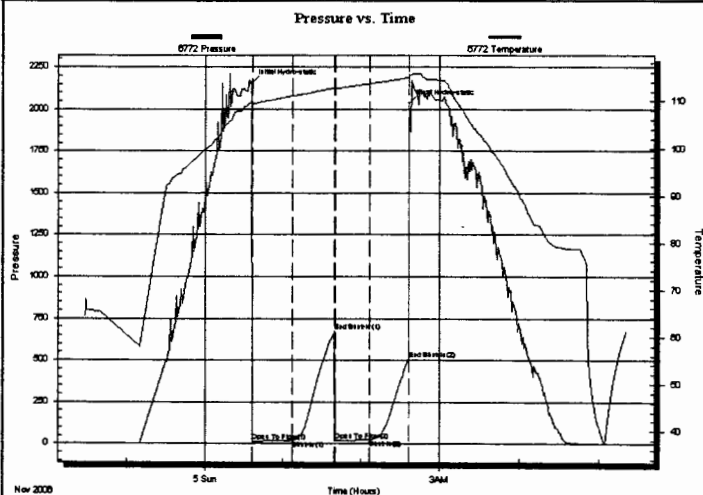
Time Off Btm: **2006.11.05 @ 02:36:32**

TEST COMMENT: IF 1/4 blow died in 18 min.

IS No return

FF No blow

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.07	109.72	Initial Hydro-static
1	15.32	109.32	Open To Flow (1)
31	18.41	111.02	Shut-In (1)
64	671.11	112.76	End Shut-In (1)
64	19.82	112.58	Open To Flow (2)
91	22.32	113.67	Shut-In (2)
121	509.40	114.96	End Shut-In (2)
121	2032.86	115.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud some Oil spots 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25533

DST#: 5

ATTN: Roger Fisher

Test Start: 2006.11.04 @ 22:27:52

Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 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:	25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	100000.0 lb
			Total Volume: 61.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4480.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	95.00 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			4461.00	
Shut In Tool	5.00			4466.00	
Hydraulic tool	5.00			4471.00	
Packer	5.00			4476.00	20.00 Bottom Of Top Packer
Packer	4.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6772	Inside	4481.00	
Perforations	4.00			4485.00	
Change Over Sub	1.00			4486.00	
Drill Pipe	63.00			4549.00	
Change Over Sub	1.00			4550.00	
Recorder	0.00	7437	Outside	4550.00	
Bullnose	5.00			4555.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Sharp 33B #2

PO Box 783188
Wichita KS 67278

33 17 30 Lane KS

Job Ticket: 25533

DST#: 5

ATTN: Roger Fisher

Test Start: 2006.11.04 @ 22:27:52

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud some Oil spots 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

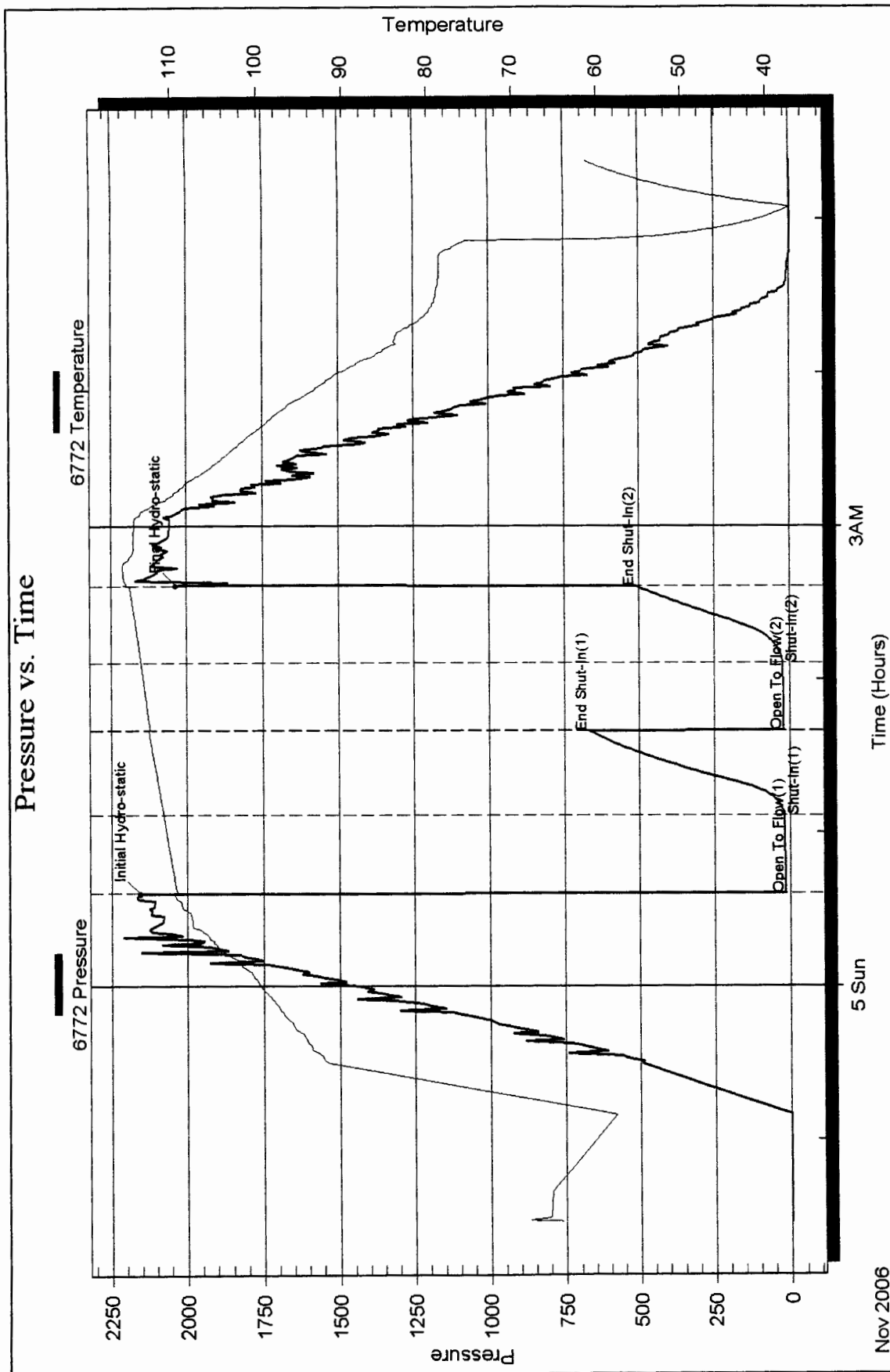
Num Gas Bombs: 0

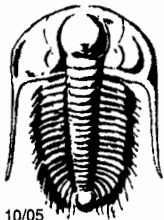
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25529

Test Ticket

Well Name & No. Sharp 33B #2 Test No. 1 Date 11-1-06
 Company Ritchie Exploration, Inc Zone Tested 45C-F
 Address P.O. Box 783188 Wichita, KS 67278 Elevation 2880 KB 2870 GL
 Co. Rep / Geo. Roger Fisher Rig Martin 21
 Location: Sec. 33 Twp. 17 Rge. 30 Co. Linne State KS
 Comment: _____ Release date / time: _____

Interval Tested 4145 4177 Initial Str Wt./Lbs. 88,000 Unseated Str Wt./Lbs. 68,000
 Anchor Length 32 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 88,000
 Top Packer Depth 4140 Tool Weight 1500
 Bottom Packer Depth 4145 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4177 Wt. Pipe Run — Drill Collar Run 178
 Mud Wt. 9.1 LCM 1 Vis. 48 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 3977
 Blow Description IF: Surface blow built to 4 in 30 min.
IS: No return.
FF: Surface blow built to 5 in 45 30 min.
FS: No return.

Recovery - Total Feet 120 GIP 124 Ft. in DC 120 Ft. in DP —
 Rec. 90 Feet of 90 10 %gas 90 %oil %water %mud
 Rec. 30 Feet of 90 %gas 20 %oil %water 80 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 114 °F Gravity 36 °API D @ 60 °F Corrected Gravity 36 °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2600 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		<u>2033</u>	PSI	Recorder No.	<u>6772</u>	Test x <u>1200.00</u>
(B) First Initial Flow Pressure		<u>13</u>	PSI	(depth)	<u>4146</u>	Jars _____
(C) First Final Flow Pressure		<u>29</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>997</u>	PSI	(depth)	<u>4176</u>	Circ Sub <u>x</u> <u>N/C</u>
(E) Second Initial Flow Pressure		<u>32</u>	PSI	Recorder No.		Sampler _____
(F) Second Final Flow Pressure		<u>54</u>	PSI	(depth)		Straddle _____
(G) Final Shut-In Pressure		<u>989</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1995</u>	PSI	Initial Shut-In	<u>45</u>	Shale Packer _____

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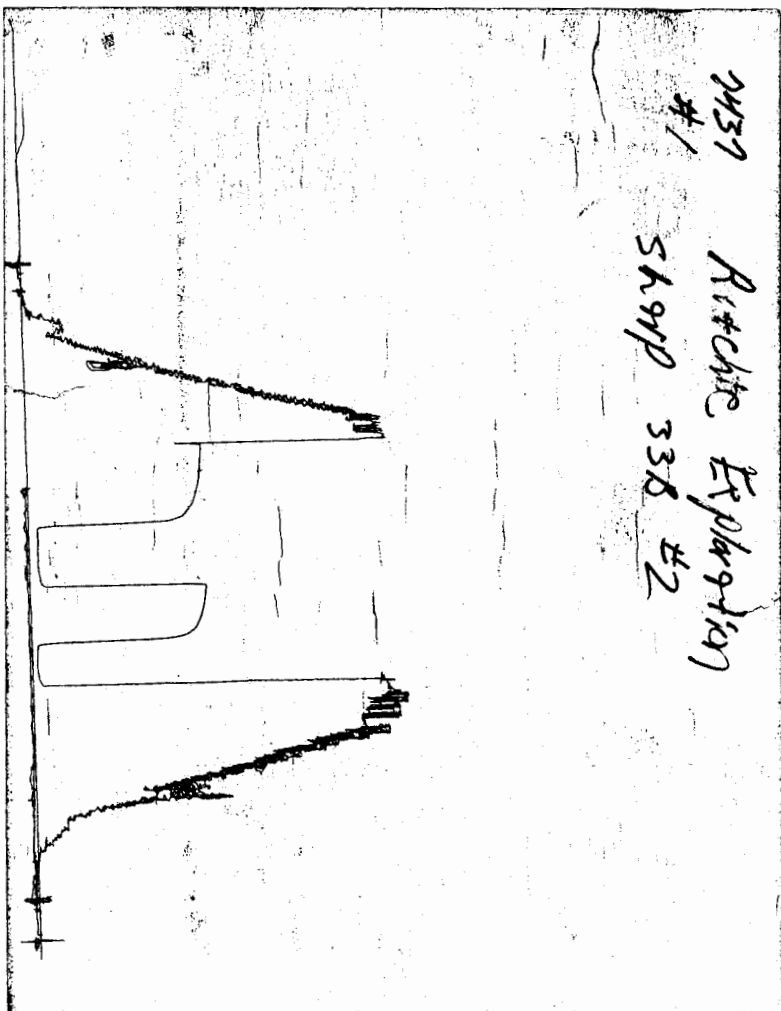
Approved By R. J. A.
 Our Representative [Signature]

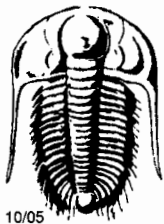
Final Flow 45
 Final Shut-In 60
 T-On Location 6:00
 T-Started 7:15
 T-Open 9:54
 T-Pulled 12:54
 T-Out 15:30
 Mileage 48 - 60.00
 Sub Total: _____
 Std. By 12 50
 Acc. Chg: _____
 Other: _____
 Total: \$1310

CHART PAGE

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

2437 Ritchie Exploration
#1 Sharp 338 #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25530

Test Ticket

Well Name & No.	Sharp 33B #2		Test No.	2		Date	11-1-06		
Company	Ritchie Exploration, Inc.		Zone Tested	LKC-J					
Address	P.O. Box 783188 Wichita, KS 67278		Elevation	2880	KB	2870	GL		
Co. Rep / Geo.	Roger Fisher		Rig	Murfin 21					
Location: Sec.	33	Twp.	17	Rge.	30	Co.	Lmc	State	KS
Comment:						Release date / time:			

Interval Tested	4179	4199	Initial Str Wt./Lbs.	70,000	Unseated Str Wt./Lbs.	70,000
Anchor Length		20	Wt. Set Lbs.	25,000	Wt. Pulled Loose/Lbs.	90,000
Top Packer Depth		4179	Tool Weight	1500		
Bottom Packer Depth		4179	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4199	Wt. Pipe Run	—	Drill Collar Run	178
Mud Wt.	9.2	LCM 1	Vis.	47	WL	7.2
Drill Pipe Size			4 1/2" x H		Ft. Run	4008
Blow Description	IF: 1/4 blow built to 5 in 30 min.					

IS: No return,
FF: 1/4 blow built to 7 in 45 min.
FS: No return.

Recovery - Total Feet	302	GIP	—	Ft. in DC	178	Ft. in DP	124
Rec.	62	Feet of	MLC	%gas	95%	%oil	%water 5% mud
Rec.	120	Feet of	MLW	%gas		60%	%water 40% mud
Rec.	120	Feet of	MLW	%gas		80%	%water 20% mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	122	*F Gravity	29	*API D @	30	*F Corrected Gravity	32
RW	.31	@	28	*F Chlorides	61,000	ppm Recovery	61,000
				Chlorides	3100	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2057	PSI	Recorder No.	6272	Test x	1200.00
(B) First Initial Flow Pressure			12	PSI	(depth)	4180	Jars	
(C) First Final Flow Pressure			79	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			934	PSI	(depth)	4198	Circ Sub	x N/L
(E) Second Initial Flow Pressure			83	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			124	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			927	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2036	PSI	Initial Shut-In	45	Shale Packer	

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Approved By [Signature]
Our Representative [Signature]

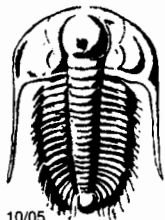
Final Flow	45	
Final Shut-In	60	
T-On Location	22:30	
T-Started	11:30	
T-Open	1:23	
T-Pulled	4:23	
T-Out	7:00	
Ruined Packer		
Mileage	48-60.00	
Sub Total:		
Std. By		
Acc. Chg:	\$1260.00	
Other:		
Total:		

CHART PAGE

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

7437
#2

Ritchie Exploration
Sharp 33B #2



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25531

Test Ticket

Well Name & No.	549CP 33B #2	Test No.	3	Date	11-2-06
Company	Ritchie Exploration, Inc	Zone Tested	LKC-L		
Address	P.O. Box 783188 Wichita, KS 67288	Elevation	2880	KB	2870 GL
Co. Rep / Geo.	Roger Fisher	Rig	Murphy 21		
Location: Sec.	33	Twp.	17	Rge.	30
		Co.	Lane	State	KS
Comment:	Release date / time:				

Interval Tested	4247	4280	Initial Str Wt./Lbs.	20,000	Unseated Str Wt./Lbs.	20,000
Anchor Length		33	Wt. Set Lbs.	25,000	Wt. Pulled Loose/Lbs.	90,000
Top Packer Depth		4242	Tool Weight	1500		
Bottom Packer Depth		4247	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4280	Wt. Pipe Run	—	Drill Collar Run	178
Mud Wt.	9.2	LCM 1	Vis.	58	WL	7.2
			Drill Pipe Size	4 1/2 X H	Ft. Run	4071
Blow Description	IF: 1/4 blow built to 2 in 30 min.					
	IS: No return.					
	FF: Surface blow built to 2 1/2 in 45 min.					
	FS: No return.					

Recovery - Total Feet	90	GIP	—	Ft. in DC	90	Ft. in DP	—
Rec.	60	Feet of	90	%gas	90	%oil	%water %mud
Rec.	30	Feet of	0CM	%gas	20	%oil	%water 80 %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	115	*F Gravity	34	*API D @	40	*F Corrected Gravity	36 *API
RW	—	@	—	*F Chlorides	—	ppm Recovery	— Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2084	PSI	Recorder No.	6772	Test	X 1200.00
(B) First Initial Flow Pressure			9	PSI	(depth)	4248	Jars	
(C) First Final Flow Pressure			27	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			502	PSI	(depth)	4279	Circ Sub	X 11/4
(E) Second Initial Flow Pressure			33	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			46	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			431	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2146	PSI	Initial Shut-In	45	Shale Packer	
					Final Flow	45	Ruined Packer	
					Final Shut-In	60	Mileage	48-60.00
					T-On Location	18:45	Sub Total:	
					T-Started	19:55	Std. By	
					T-Open	22:20	Acc. Chg:	
					T-Pulled	1:20	Other:	
					T-Out	3:50	Total:	X 1260

Approved By B. J. Fisher

Our Representative [Signature]

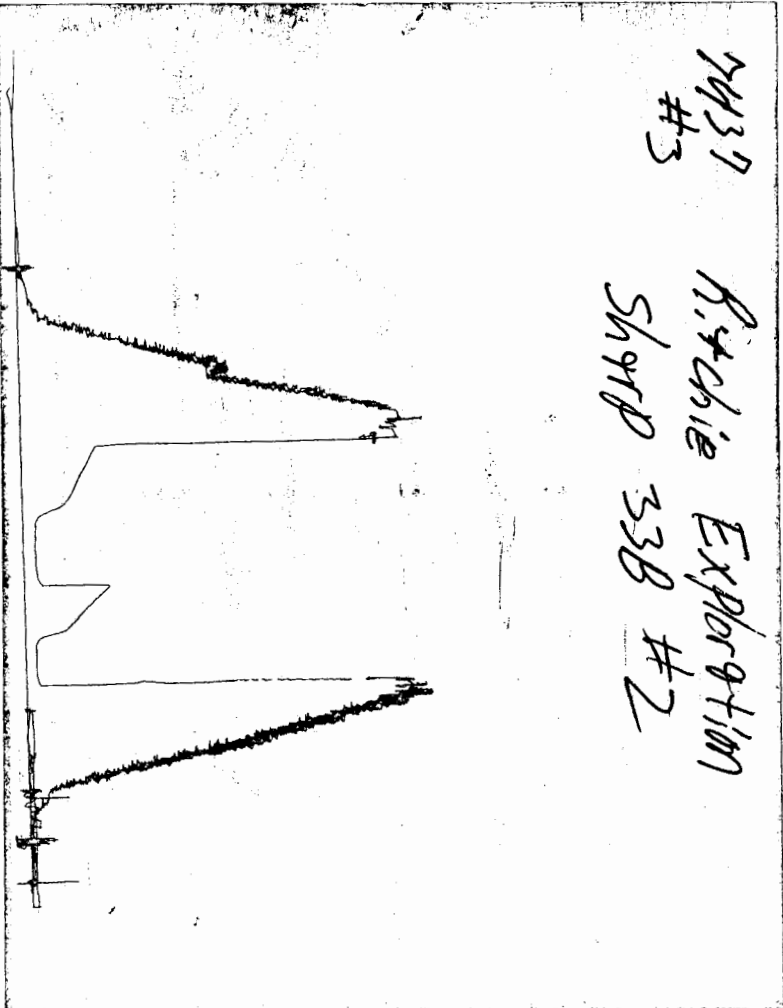
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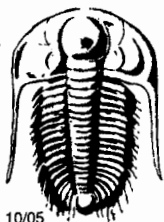
CHART PAGE

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

74437
#3

Ritchie Exploration
Sharp 33B #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25532

Test Ticket

Well Name & No.	Sharp 33B #2		Test No.	4	Date	11-3-06
Company	Ritchie Exploration, Inc		Zone Tested	Altqmount		
Address	P.O. Box 783188 Wichita, KS 67278		Elevation	2880	KB	2820 GL
Co. Rep / Geo.	Roger Fisher		Rig	Murfin 21		
Location: Sec.	33	Twp.	17	Rge.	30	Co. Lane State KS
Comment:	Release date / time:					

Interval Tested	4254	4373	Initial Str Wt./Lbs.	70,000	Unseated Str Wt./Lbs.	76,000
Anchor Length	19		Wt. Set Lbs.	25,000	Wt. Pulled Loose/Lbs.	90,000
Top Packer Depth	4349		Tool Weight	1500		
Bottom Packer Depth	4354		Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth	4373		Wt. Pipe Run	—	Drill Collar Run	178
Mud Wt.	9.2	LCM 1	Vis.	59	WL	8.8
Drill Pipe Size	4 1/2 x 4		Ft. Run	4166		

Blow Description IF: BoB in 30 sec.

FS: BoB in 25 min.

FF: BoB in 3 min.

FS: Surface blow built to 6 in 45 min.

Recovery - Total Feet	1976	GIP	372	Ft. in DC	178	Ft. in DP	1798
Rec.	930	Feet of	90	10 %gas	90 %oil	%water	%mud
Rec.	868	Feet of	90	20 %gas	80 %oil	%water	%mud
Rec.	178	Feet of	mc90	10 %gas	70 %oil	%water	20 %mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	127	°F Gravity	35	°API D @	40	°F Corrected Gravity	37
RW	—	@	—	°F Chlorides	—	ppm Recovery	—
				Chlorides	3400	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2165	PSI	Recorder No.	6778	Test	X1200.00
(B) First Initial Flow Pressure			244	PSI	(depth)	4355	Jars	
(C) First Final Flow Pressure			562	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			719	PSI	(depth)	4372	Circ Sub	X N/L
(E) Second Initial Flow Pressure			565	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			688	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			712	PSI	Initial Opening	15	Ext. Packer	
(Q) Final Hydrostatic Mud			2120	PSI	Initial Shut-In	30	Shale Packer	

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Approved By [Signature]

Our Representative [Signature]

Final Flow	30
Final Shut-In	45
T-On Location	16:00
T-Started	17:02
T-Open	19:02
T-Pulled	21:02
T-Out	1:00

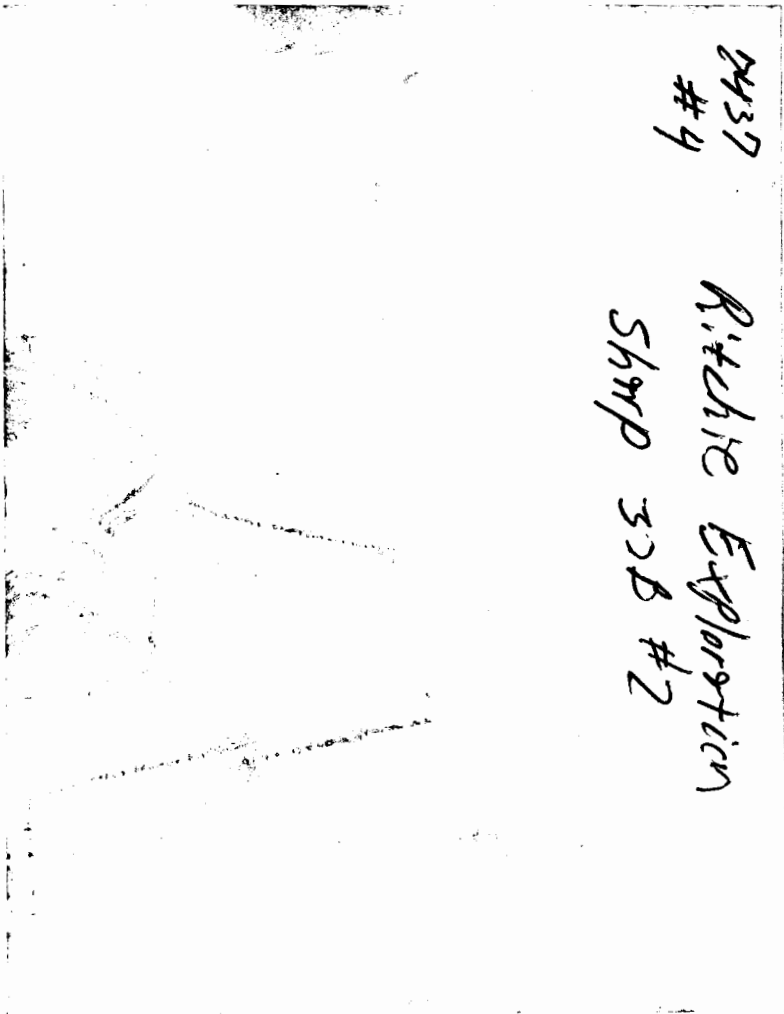
Ruined Packer	
Mileage	48-60.00
Sub Total:	
Std. By	X
Acc. Chg:	
Other:	
Total:	\$1260.00

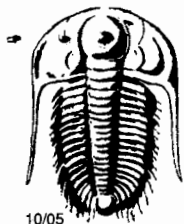
CHART PAGE

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

2437
#4

Ritchie Exploration
Shmp 328 #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25533

Test Ticket

Well Name & No.	Sharp 33B #2		Test No.	5	Date	11-4-06
Company	Ritchie Exploration, Inc		Zone Tested	Johnson		
Address	P.O. Box 783188 Wichita, KS 67278		Elevation	2880	KB	2870 GL
Co. Rep / Geo.	Roger Fisher		Rig	Murfin 21		
Location: Sec.	33	Twp.	17	Rge.	30	Co. Lme State KS
Comment:	Release date / time:					

Interval Tested 4480 4555 Initial Str Wt./Lbs. 76,000 Unseated Str Wt./Lbs. 76,000
 Anchor Length 75 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 100000
 Top Packer Depth 4475 Tool Weight 1500
 Bottom Packer Depth 4480 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4555 Wt. Pipe Run — Drill Collar Run 178
 Mud Wt. 9.4 LCM 1 Vis. 47 WL 2.2 Drill Pipe Size 4 1/2 XH Ft. Run 4290
 Blow Description IF: 1/4 blow died in 18 min.
IS: No return.
FF: No blow.
FS: No return.

Recovery - Total Feet 5 GIP — Ft. in DC 5 Ft. in DP —
 Rec. 5 Feet of mud some oil spots %gas %oil %water 100 %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 BHT 114 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 3600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2213	PSI	Recorder No.	6772	Test x	1200.00
(B) First Initial Flow Pressure			15	PSI	(depth)	4481	Jars	
(C) First Final Flow Pressure			18	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			671	PSI	(depth)	4554	Circ Sub x	N/C
(E) Second Initial Flow Pressure			19	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			22	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			509	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2204	PSI	Initial Shut-In	30	Shale Packer	
					Final Flow	30	Ruined Packer x	200.00
					Final Shut-In	30	Mileage	48-60.00
					T-On Location	21:00	Sub Total:	
					T-Started	22:27	Std. By	
					T-Open	00:36	Acc. Chg:	
					T-Pulled	2:36	Other:	
					T-Out	5:22	Total:	1260.00

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Approved By [Signature]
 Our Representative [Signature]

CHART PAGE

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

M37
#5

Ritchie Exploring
Sharp 33B #2

