

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Thomas Funk

18 30S 25W Clark KS

Sipper-Johnson #1

Start Date: 2006.08.12 @ 20:16:19

End Date: 2006.08.13 @ 05:06:49

Job Ticket #: 24961 DST #: 1

KCC
OCT 26 2006
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Printed: 2006.08.22 @ 14:14:49

Ritchie Exploration Inc

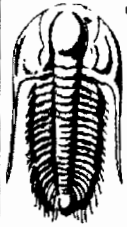
Sipper-Johnson #1

18 30S 25W Clark KS

DST # 1

Marmaton

2006.08.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita KS 67278

ATTN: Thomas Funk

Sipper-Johnson #1

18 30S 25W Clark KS

Job Ticket: 24961

DST#: 1

Test Start: 2006.08.12 @ 20:16:19

GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 23:06:19

Time Test Ended: 05:06:49

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **5037.00 ft (KB) To 5065.00 ft (KB) (TVD)**

Total Depth: **5065.00 ft (KB) (TVD)**

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

Reference Elevations: **2577.00 ft (KB)**

2569.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6771

Inside

Press@RunDepth: **38.33 psig @ 5038.00 ft (KB)**

Start Date: **2006.08.12**

End Date:

2006.08.13

Capacity: **7000.00 psig**

Last Calib.: **2006.08.13**

Start Time: **20:16:24**

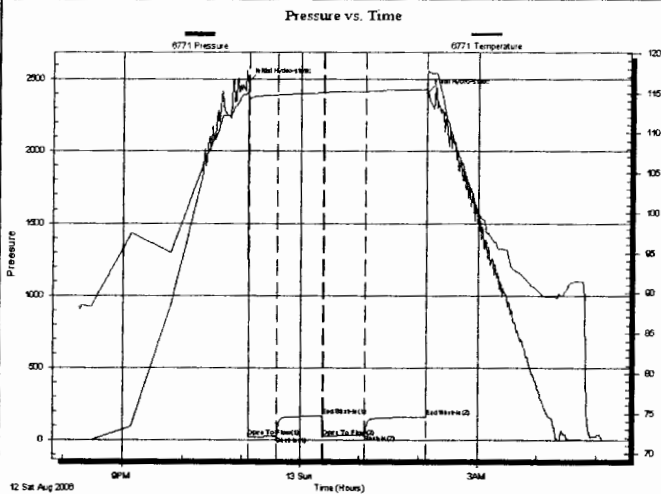
End Time:

05:06:49

Time On Btm: **2006.08.12 @ 23:05:49**

Time Off Btm: **2006.08.13 @ 02:07:33**

TEST COMMENT: IF Fair to strong blow BOB (10 ") in 5 1/2 min
ISI No blow
FF Strong blow BOB (10 ") in 45 sec
FSI No blow



PRESSURE SUMMARY

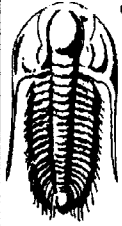
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2483.10 | 115.12 | Initial Hydro-static |
| 1 | 20.99 | 114.37 | Open To Flow (1) |
| 30 | 27.30 | 114.78 | Shut-In (1) |
| 77 | 166.37 | 115.06 | End Shut-In (1) |
| 78 | 21.22 | 115.02 | Open To Flow (2) |
| 120 | 38.33 | 115.21 | Shut-In (2) |
| 182 | 161.13 | 115.51 | End Shut-In (2) |
| 182 | 2407.43 | 117.17 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 62.00 | GOCM 8%G 9%O 83%M | 0.30 |
| 0.00 | 1920' GIP | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Sipper-Johnson #1

PO Box 783188
Wichita KS 67278

18 30S 25W Clark KS

Job Ticket: 24961

DST#: 1

ATTN: Thomas Funk

Test Start: 2006.08.12 @ 20:16:19

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4718.00 ft | Diameter: 3.80 inches | Volume: 66.18 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 310.00 ft | Diameter: 2.25 inches | Volume: 1.52 bbl | Weight to Pull Loose: 71000.00 lb |
| | | | <u>Total Volume: 67.70 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial 58000.00 lb |
| Depth to Top Packer: | 5037.00 ft | | | Final 59000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 28.00 ft | | | |
| Tool Length: | 55.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

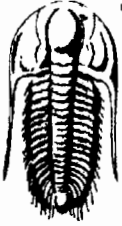
| | | | | | |
|-----------------|-------|-------|---------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 5011.00 | |
| Shut In Tool | 5.00 | | | 5016.00 | |
| Hydraulic tool | 5.00 | | | 5021.00 | |
| Jars | 5.00 | | | 5026.00 | |
| Safety Joint | 2.00 | | | 5028.00 | |
| Packer | 4.00 | | | 5032.00 | 27.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 5037.00 | |
| Stubb | 1.00 | | | 5038.00 | |
| Recorder | 0.00 | 6771 | Inside | 5038.00 | |
| Perforations | 22.00 | | | 5060.00 | |
| Recorder | 0.00 | 13789 | Outside | 5060.00 | |
| Bullnose | 5.00 | | | 5065.00 | 28.00 Bottom Packers & Anchor |

Total Tool Length: 55.00

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FLUID SUMMARY

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Sipper-Johnson #1

PO Box 783188
Wichita KS 67278

18 30S 25W Clark KS

Job Ticket: 24961

DST#: 1

ATTN: Thomas Funk

Test Start: 2006.08.12 @ 20:16:19

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:

5000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 62.00 | GOCM 8%G 9%O 83%M | 0.305 |
| 0.00 | 1920' GIP | 0.000 |

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

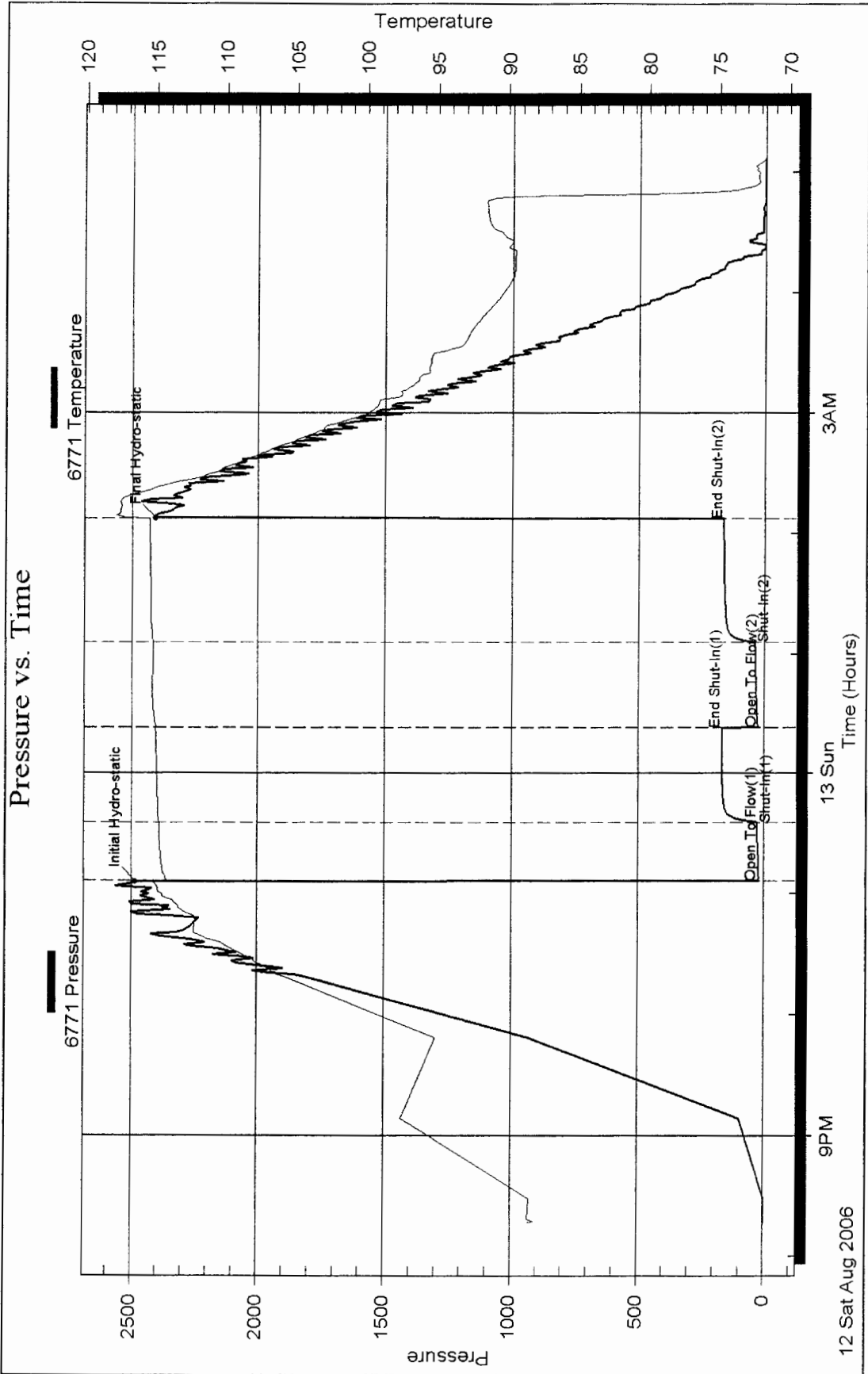
Serial #: 6771

Inside

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Jobite Testing, Inc

Ref. No: 24961

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