



DRILL STEM TEST REPORT

Prepared For: **VJI Natural Res., Inc.**

30-38 48th. St.
Astoria, NY 11103

ATTN: Jason Dinges

25-8s-25w Graham

Holley # 1-A

Start Date: 2003.03.30 @ 08:07:12

End Date: 2003.03.30 @ 14:32:12

Job Ticket #: 17781 DST #: 1

VJI Natural Res., Inc.

Holley # 1-A

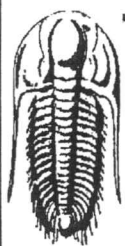
25-8s-25w Graham

DST # 1

L.Kc-B

2003.03.30

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17781

DST#: 1

ATTN: Jason Dinges

Test Start: 2003.03.30 @ 08:07:12

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3550.00 ft | Diameter: 3.80 inches | Volume: 49.80 bbl | Tool Weight: 2400.00 lb |
| Heavy Wt. Pipe: | Length: 188.00 ft | Diameter: 2.70 inches | Volume: 1.33 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 51.13 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 3735.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 25.02 ft | | | |
| Tool Length: | 45.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3716.00 | |
| S.I. Tool | 5.00 | | | 3721.00 | |
| HMV | 5.00 | | | 3726.00 | |
| Packer | 4.00 | | | 3730.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3735.00 | |
| Stubb | 1.00 | | | 3736.00 | |
| Perforations | 1.00 | | | 3737.00 | |
| Recorder | 0.01 | 3227 | Inside | 3737.01 | |
| Perforations | 20.00 | | | 3757.01 | |
| Recorder | 0.01 | 13308 | Outside | 3757.02 | |
| Bullnose | 3.00 | | | 3760.02 | 25.02 Bottom Packers & Anchor |

Total Tool Length: 45.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17781

DST#: 1

ATTN: Jason Dinges

Test Start: 2003.03.30 @ 08:07:12

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:

61000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 1208.00 | V.S.O&G.C.-salt w ater | 15.639 |

Total Length: 1208.00 ft

Total Volume: 15.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3227

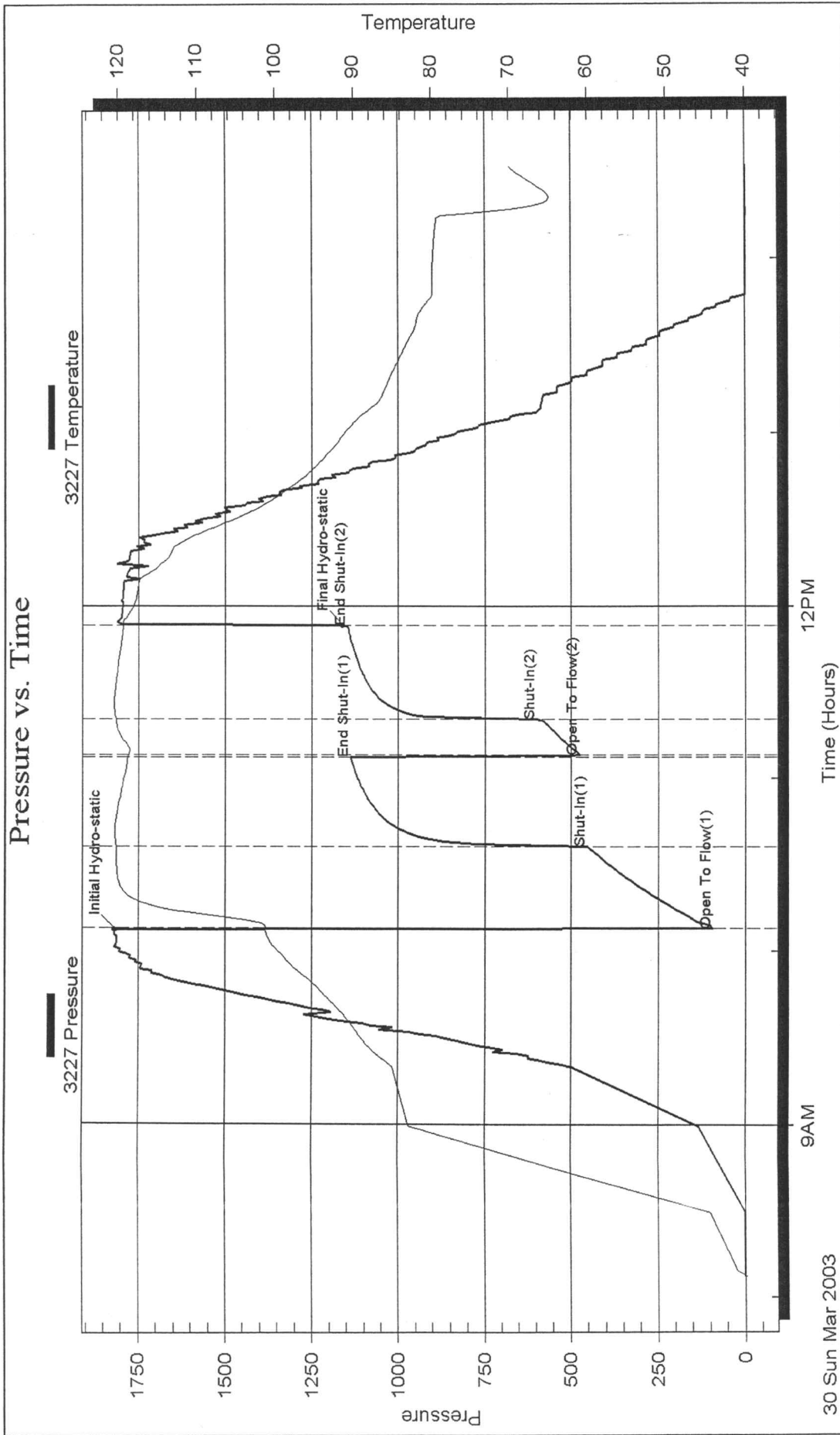
Inside

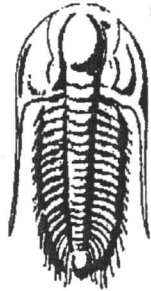
V/JI Natural Res., Inc.

25-8s-25w Graham

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **VJI Natural Res., Inc.**

30-38 48th. St.
Astoria, NY 11103

ATTN: Jason Dinges

25-8s-25w Graham

Holley # 1-A

Start Date: 2003.03.30 @ 22:26:17

End Date: 2003.03.31 @ 05:20:47

Job Ticket #: 17782 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

VJI Natural Res., Inc.

Holley # 1-A

25-8s-25w Graham

DST # 2

L.Kc.-E&F

2003.03.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

VJI Natural Res., Inc.

30-38 48th. St.
Astoria, NY 11103

ATTN: Jason Dinges

Holley # 1-A

25-8s-25w Graham

Job Ticket: 17782

DST#: 2

Test Start: 2003.03.30 @ 22:26:17

GENERAL INFORMATION:

Formation: **L.Kc.-E&F**

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

Time Tool Opened: 00:17:02

Time Test Ended: 05:20:47

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3777.00 ft (KB) To 3804.00 ft (KB) (TVD)**

Total Depth: **3804.00 ft (KB) (TVD)**

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

Reference Elevations: **2455.00 ft (KB)**

2450.00 ft (CF)

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

Serial #: **3227**

Inside

Press@RunDepth: **71.20 psig @ 3779.01 ft (KB)**

Start Date: **2003.03.30**

End Date: **2003.03.31**

Capacity: **7000.00 psig**

Last Calib.: **2003.03.31**

Start Time: **22:26:18**

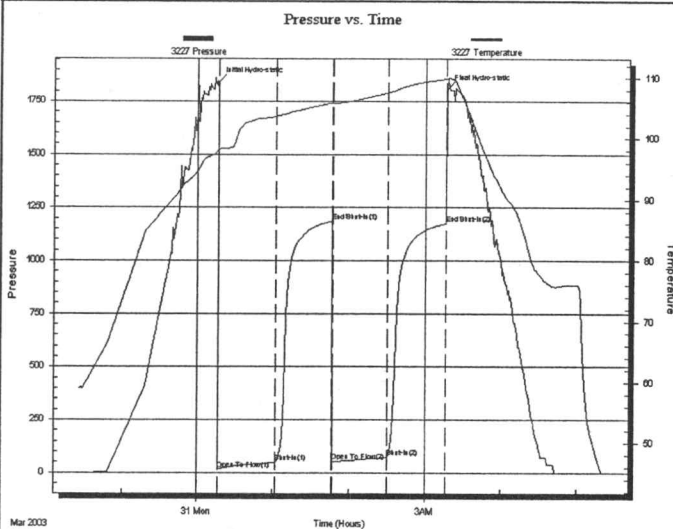
End Time: **05:20:47**

Time On Btm: **2003.03.31 @ 00:16:47**

Time Off Btm: **2003.03.31 @ 03:17:02**

TEST COMMENT: IF-Weak built to 4" in
FF-Weak built to 3" in

ISI-Dead
FSI-Dead



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1841.24 | 98.22 | Initial Hydro-static |
| 1 | 15.10 | 98.14 | Open To Flow (1) |
| 46 | 46.34 | 103.66 | Shut-In(1) |
| 90 | 1185.39 | 105.89 | End Shut-In(1) |
| 91 | 48.91 | 105.79 | Open To Flow (2) |
| 133 | 71.20 | 107.56 | Shut-In(2) |
| 180 | 1174.34 | 109.81 | End Shut-In(2) |
| 181 | 1810.12 | 109.92 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 125.00 | O.C.M.65% mud-35% oil | 0.89 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17782

DST#: 2

ATTN: Jason Dinges

Test Start: 2003.03.30 @ 22:26:17

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3582.00 ft | Diameter: 3.80 inches | Volume: 50.25 bbl | Tool Weight: 2400.00 lb |
| Heavy Wt. Pipe: | Length: 188.00 ft | Diameter: 2.70 inches | Volume: 1.33 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 51.58 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 13.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 3777.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.02 ft | | | |
| Tool Length: | 47.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3758.00 | |
| S.I. Tool | 5.00 | | | 3763.00 | |
| HMV | 5.00 | | | 3768.00 | |
| Packer | 4.00 | | | 3772.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3777.00 | |
| Stubb | 1.00 | | | 3778.00 | |
| Perforations | 1.00 | | | 3779.00 | |
| Recorder | 0.01 | 3227 | Inside | 3779.01 | |
| Perforations | 22.00 | | | 3801.01 | |
| Recorder | 0.01 | 13308 | Outside | 3801.02 | |
| Bullnose | 3.00 | | | 3804.02 | 27.02 Bottom Packers & Anchor |

Total Tool Length: 47.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Res., Inc.
30-38 48th. St.
Astoria, NY 11103
ATTN: Jason Dinges

Holley # 1-A
25-8s-25w Graham
Job Ticket: 17782 **DST#: 2**
Test Start: 2003.03.30 @ 22:26:17

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: 7.18 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

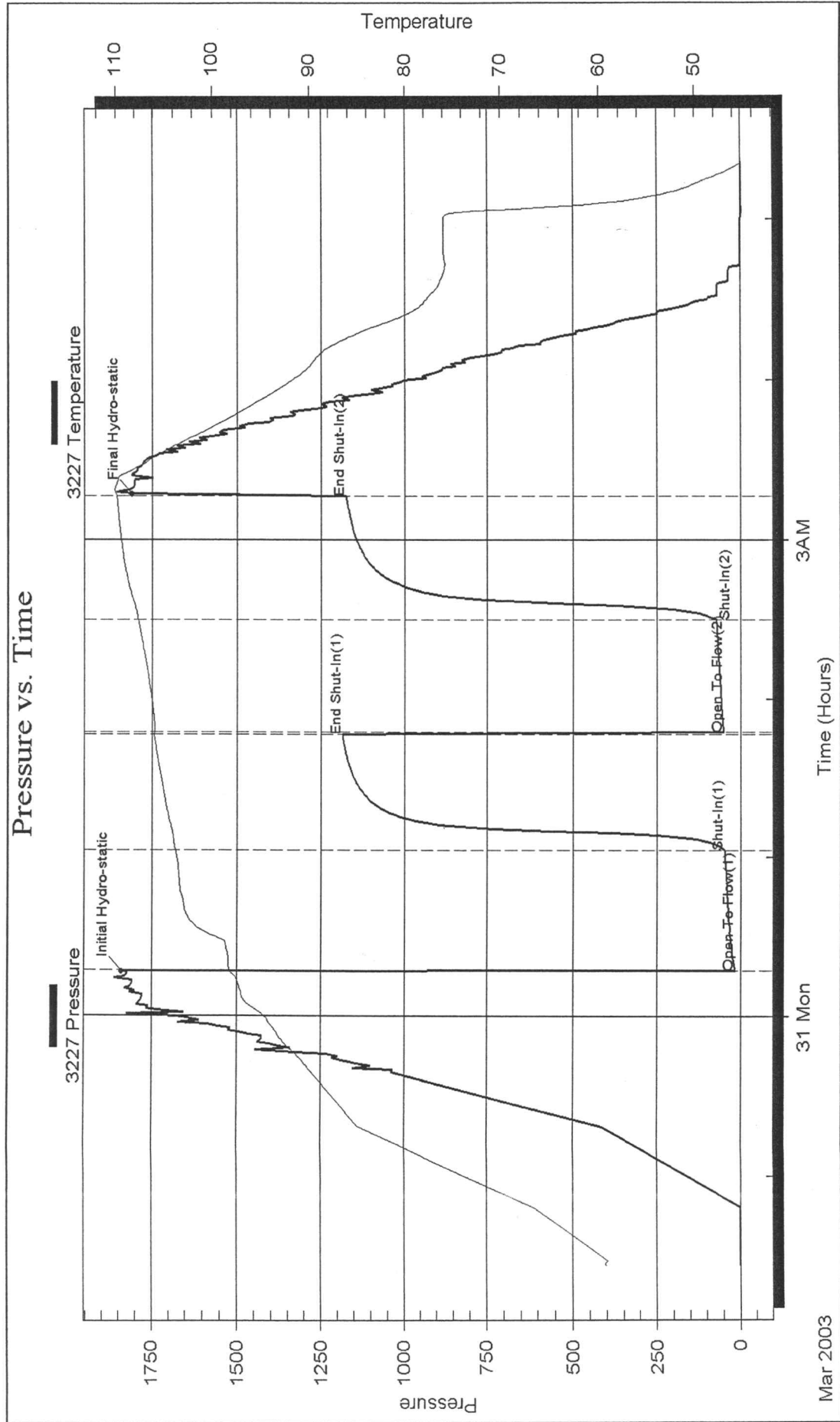
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 125.00 | O.C.M.65% mud-35% oil | 0.885 |

Total Length: 125.00 ft Total Volume: 0.885 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: **VJI Natural Res., Inc.**

30-38 48th. St.
Astoria, NY 11103

ATTN: Jason Dinges

25-8s-25w Graham

Holley # 1-A

Start Date: 2003.03.31 @ 19:36:00

End Date: 2003.04.01 @ 02:28:15

Job Ticket #: 17783 DST #: 3

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

VJI Natural Res., Inc.

Holley # 1-A

25-8s-25w Graham

DST # 3

L.Kc-1

2003.03.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

ATTN: Jason Dinges

Job Ticket: 17783

DST#: 3

Test Start: 2003.03.31 @ 19:36:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3672.00 ft | Diameter: 3.80 inches | Volume: 51.51 bbl | Tool Weight: 2400.00 lb |
| Heavy Wt. Pipe: | Length: 188.00 ft | Diameter: 2.70 inches | Volume: 1.33 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 52.84 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 3860.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.02 ft | | | |
| Tool Length: | 47.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub | 1.00 | | | 3841.00 | |
| S.I. Tool | 5.00 | | | 3846.00 | |
| HMV | 5.00 | | | 3851.00 | |
| Packer | 4.00 | | | 3855.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3860.00 | |
| Stubb | 1.00 | | | 3861.00 | |
| Perforations | 1.00 | | | 3862.00 | |
| Recorder | 0.01 | 3227 | Inside | 3862.01 | |
| Perforations | 22.00 | | | 3884.01 | |
| Recorder | 0.01 | 13308 | Outside | 3884.02 | |
| Bullnose | 3.00 | | | 3887.02 | 27.02 Bottom Packers & Anchor |

Total Tool Length: 47.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17783

DST#: 3

ATTN: Jason Dinges

Test Start: 2003.03.31 @ 19:36:00

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: 7.18 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 30.00 | O-C-M--20%oil--80%mud | 0.212 |
| 0.00 | 40'gas in pipe | 0.000 |

Total Length: 30.00 ft Total Volume: 0.212 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **VJI Natural Res., Inc.**

30-38 48th. St.
Astoria, NY 11103

ATTN: Jason Dinges

25-8s-25w Graham

Holley # 1-A

Start Date: 2003.04.01 @ 10:44:33

End Date: 2003.04.01 @ 16:31:18

Job Ticket #: 17784 DST #: 4

VJI Natural Res., Inc.

Holley # 1-A

25-8s-25w Graham

DST # 4

L.Kc.-1&J

2003.04.01

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17784

DST#: 4

ATTN: Jason Dinges

Test Start: 2003.04.01 @ 10:44:33

GENERAL INFORMATION:

Formation: **L.Kc.-I&J**

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

Time Tool Opened: 12:16:03

Time Test Ended: 16:31:18

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3862.00 ft (KB) To 3905.00 ft (KB) (TVD)**

Total Depth: **3905.00 ft (KB) (TVD)**

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

Reference Elevations: **2455.00 ft (KB)**

2450.00 ft (CF)

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

Serial #: **3227**

Inside

Press@RunDepth: **26.30 psig @ 3865.01 ft (KB)**

Start Date: **2003.04.01**

End Date:

2003.04.01

Capacity: **7000.00 psig**

Last Calib.: **2003.04.01**

Start Time: **10:44:34**

End Time:

16:31:18

Time On Btm: **2003.04.01 @ 12:15:48**

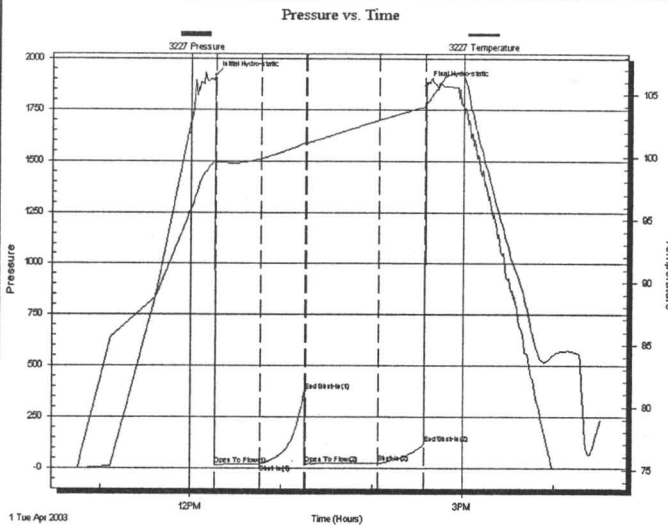
Time Off Btm: **2003.04.01 @ 14:35:03**

TEST COMMENT: IF-Weak Dead in 17 min.

IS-Dead

FF-Weak surface blow

FS-Dead



PRESSURE SUMMARY

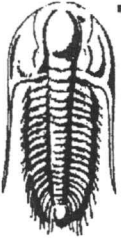
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1915.70 | 99.74 | Initial Hydro-static |
| 1 | 14.38 | 99.59 | Open To Flow (1) |
| 31 | 20.31 | 99.88 | Shut-In(1) |
| 60 | 375.63 | 101.12 | End Shut-In(1) |
| 61 | 20.71 | 101.12 | Open To Flow (2) |
| 108 | 26.30 | 102.96 | Shut-In(2) |
| 139 | 119.92 | 104.06 | End Shut-In(2) |
| 140 | 1867.46 | 104.27 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 20.00 | OCM-15% oil 85% mud | 0.14 |
| 0.00 | 30 gas in pipe | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17784

DST#: 4

ATTN: Jason Dinges

Test Start: 2003.04.01 @ 10:44:33

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3674.00 ft | Diameter: 3.80 inches | Volume: 51.54 bbl | Tool Weight: | 3000.00 lb |
| Heavy Wt. Pipe: | Length: 188.00 ft | Diameter: 2.70 inches | Volume: 1.33 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: | 60000.00 lb |
| | | | <u>Total Volume: 52.87 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial | 42000.00 lb |
| Depth to Top Packer: | 3862.00 ft | | | Final | 42000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 43.02 ft | | | | |
| Tool Length: | 63.02 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

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

| | | | | | |
|---------------|-------|-------|---------|---------|-------------------------------|
| C.O. Sub | 1.00 | | | 3843.00 | |
| S.I. Tool | 5.00 | | | 3848.00 | |
| HMV | 5.00 | | | 3853.00 | |
| Packer | 4.00 | | | 3857.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3862.00 | |
| Stubb | 1.00 | | | 3863.00 | |
| Perforations | 2.00 | | | 3865.00 | |
| Recorder | 0.01 | 3227 | Inside | 3865.01 | |
| Blank Spacing | 30.00 | | | 3895.01 | |
| Perforations | 7.00 | | | 3902.01 | |
| Recorder | 0.01 | 13308 | Outside | 3902.02 | |
| Bullnose | 3.00 | | | 3905.02 | 43.02 Bottom Packers & Anchor |

Total Tool Length: 63.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Res., Inc.

Holley # 1-A

30-38 48th. St.
Astoria, NY 11103

25-8s-25w Graham

Job Ticket: 17784

DST#: 4

ATTN: Jason Dinges

Test Start: 2003.04.01 @ 10:44:33

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: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 20.00 | OCM-15% oil 85% mud | 0.142 |
| 0.00 | 30 gas in pipe | 0.000 |

Total Length: 20.00 ft

Total Volume: 0.142 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3227

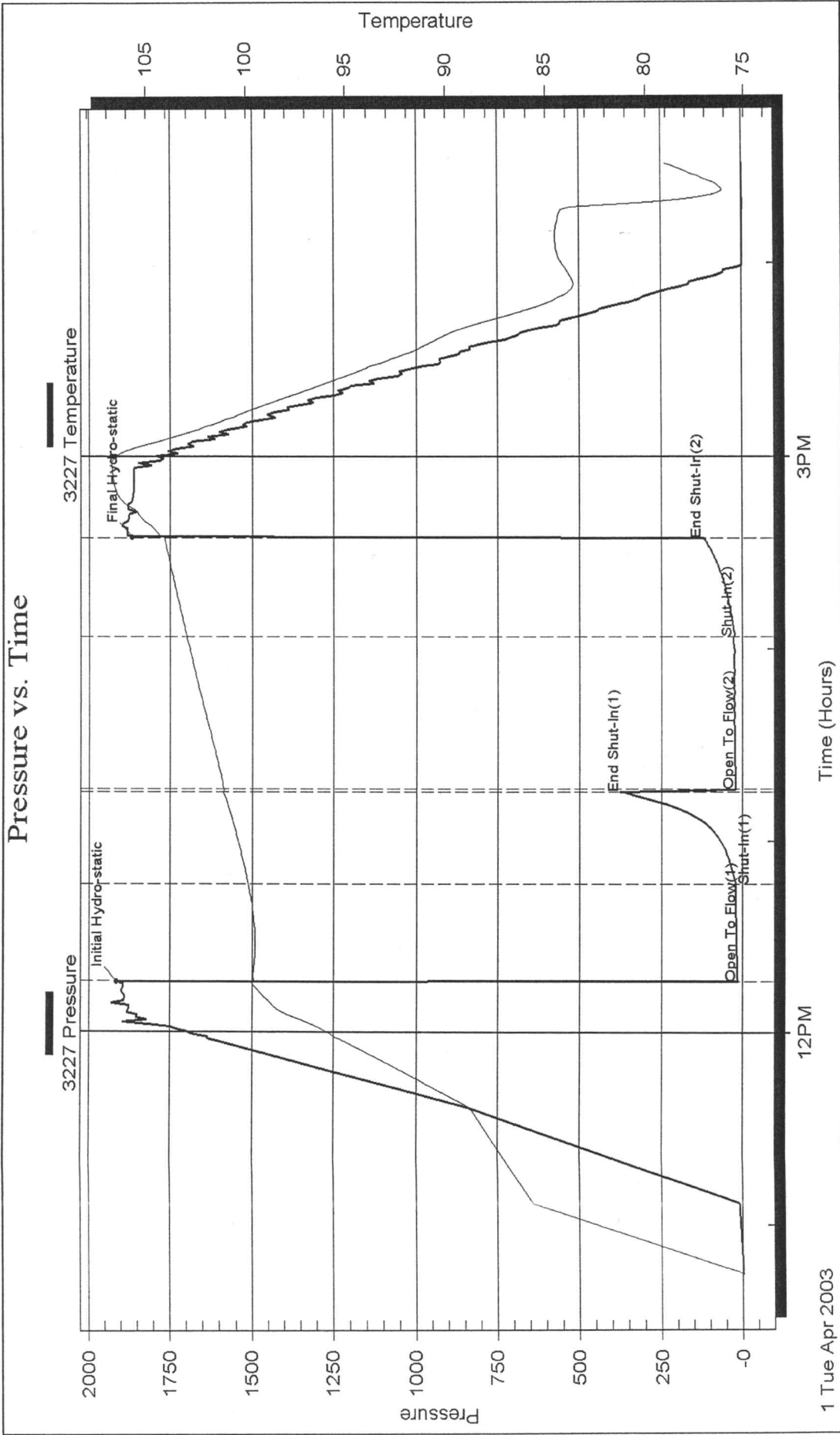
Inside

V/JI Natural Res., Inc.

25-8s-25w Graham

DST Test Number: 4

Pressure vs. Time



1 Tue Apr 2003

12PM

3PM

Time (Hours)