



## DRILL STEM TEST REPORT

Prepared For: **V.J.I.Natural Res. Inc.**

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

ATTN: Jason Dinges

**31-8s-24w Graham KS**

**Holley # 6-B**

Start Date: 2003.02.26 @ 11:31:05

End Date: 2003.02.26 @ 17:58:05

Job Ticket #: 17439                      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

V.J.I.Natural Res. Inc.

Holley # 6-B

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

31-8s-24w Graham KS

ATTN: Jason Dinges

Job Ticket: 17439

DST#: 1

Test Start: 2003.02.26 @ 11:31:05

## GENERAL INFORMATION:

Formation: **L.Kc.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:35

Time Test Ended: 17:58:05

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3828.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2475.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3017**

Inside

Press@RunDepth: 840.08 psig @ 3832.01 ft (KB)

Start Date: 2003.02.26

End Date:

2003.02.26

Start Time: 11:31:07

End Time:

17:58:05

Capacity: 7000.00 psig

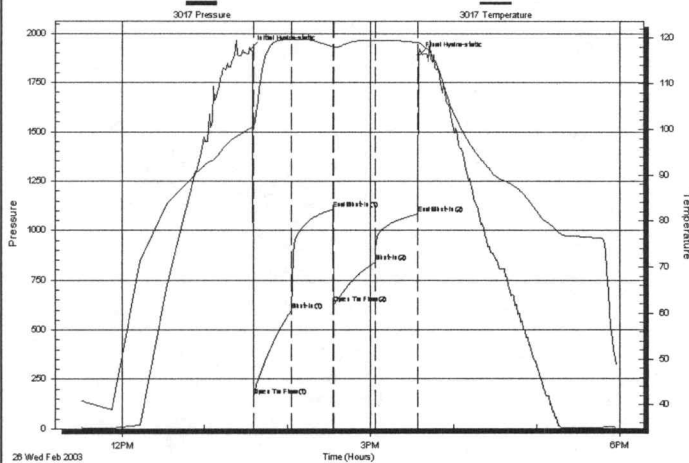
Last Calib.: 2003.02.26

Time On Btm: 2003.02.26 @ 13:33:05

Time Off Btm: 2003.02.26 @ 15:34:35

TEST COMMENT: IF-Strong B.O.B.1 min. ISI-Dead  
FF-Strong B.O.B.1 min. FSI-Dead

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.47	100.21	Initial Hydro-static
3	163.22	100.73	Open To Flow (1)
30	597.53	119.69	Shut-In(1)
60	1107.89	118.10	End Shut-In(1)
60	629.76	118.06	Open To Flow (2)
90	840.08	119.52	Shut-In(2)
121	1083.05	119.04	End Shut-In(2)
122	1888.87	119.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1750.00	salt water	22.37

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

V.J.I.Natural Res. Inc.

**Holley # 6-B**

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

**31-8s-24w Graham KS**

Job Ticket: 17439

**DST#: 1**

ATTN: Jason Dinges

Test Start: 2003.02.26 @ 11:31:05

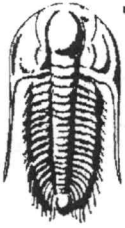
### Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 313.00 ft	Diameter: 2.70 inches	Volume: 2.22 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: 51.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3828.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	42.02 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			3809.00	
S.I. Tool	5.00			3814.00	
HMV	5.00			3819.00	
Packer	4.00			3823.00	20.00 Bottom Of Top Packer
Packer	5.00			3828.00	
Stubb	1.00			3829.00	
Perforations	3.00			3832.00	
Recorder	0.01	3017	Inside	3832.01	
Perforations	15.00			3847.01	
Recorder	0.01	13308	Outside	3847.02	
Bullnose	3.00			3850.02	22.02 Bottom Packers & Anchor

**Total Tool Length: 42.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

V.J.I.Natural Res. Inc.

**Holley # 6-B**

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

**31-8s-24w Graham KS**

Job Ticket: 17439

**DST#: 1**

ATTN: Jason Dinges

Test Start: 2003.02.26 @ 11:31:05

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1750.00	salt w ater	22.374

Total Length: 1750.00 ft      Total Volume: 22.374 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

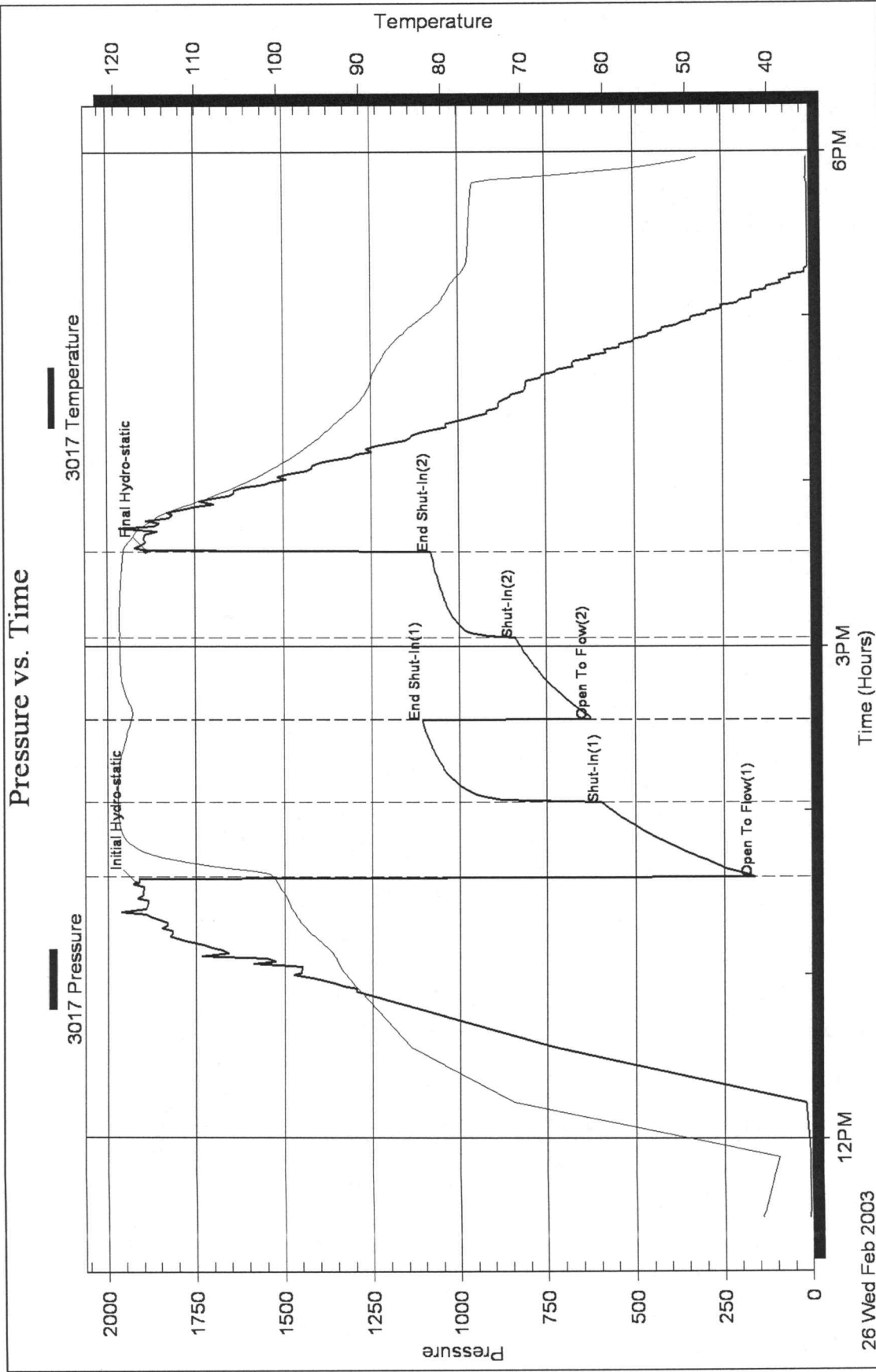
Serial #:

Laboratory Name:

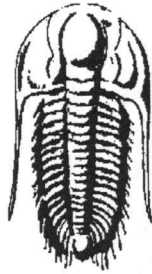
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



26 Wed Feb 2003



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **V.J.I.Natural Res. Inc.**

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

ATTN: Jason Dinges

**31-8s-24w Graham KS**

**Holley # 6-B**

Start Date: 2003.02.27 @ 16:54:15

End Date: 2003.02.27 @ 21:40:15

Job Ticket #: 17440                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

V.J.I.Natural Res. Inc.

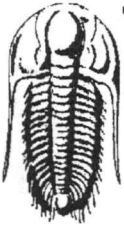
Holley # 6-B

31-8s-24w Graham KS

DST # 2

L.Kc.-K

2003.02.27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

V.J.I.Natural Res. Inc.

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

ATTN: Jason Dinges

**Holley # 6-B**

**31-8s-24w Graham KS**

Job Ticket: 17440

**DST#: 2**

Test Start: 2003.02.27 @ 16:54:15

## GENERAL INFORMATION:

Formation: **L.Kc.-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:34:45

Time Test Ended: 21:40:15

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3990.00 ft (KB) To 4010.00 ft (KB) (TVD)**

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2475.00 ft (KB)

2470.00 ft (CF)

KB to GRVCF: 5.00 ft

**Serial #: 3017**

Inside

Press@RunDepth: 22.23 psig @ 3992.01 ft (KB)

Start Date: 2003.02.27

End Date:

2003.02.27

Start Time: 16:54:17

End Time:

21:40:15

Capacity: 7000.00 psig

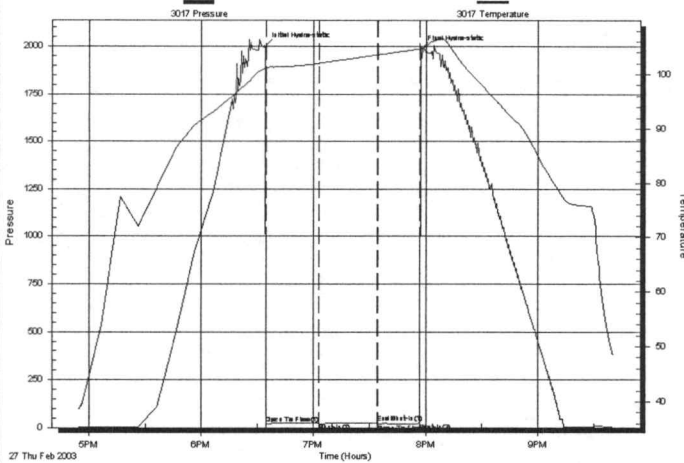
Last Calib.: 2003.02.27

Time On Btm: 2003.02.27 @ 18:34:15

Time Off Btm: 2003.02.27 @ 19:57:15

TEST COMMENT: IF-Weak Dead in 25 min.  
FF-Dead Flush tool no help

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.72	101.12	Initial Hydro-static
1	19.13	101.22	Open To Flow (1)
29	22.23	102.04	Shut-In(1)
60	26.12	103.56	End Shut-In(1)
60	21.09	103.58	Open To Flow (2)
83	21.65	104.64	Shut-In(2)
83	1986.54	104.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling mud	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

V.J.I.Natural Res. Inc.

**Holley # 6-B**

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

**31-8s-24w Graham KS**

Job Ticket: 17440

**DST#: 2**

ATTN: Jason Dinges

Test Start: 2003.02.27 @ 16:54:15

### Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 313.00 ft	Diameter: 2.70 inches	Volume: 2.22 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: 70000.00 lb
			<u>Total Volume: 53.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3990.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	40.02 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			3971.00	
S.I. Tool	5.00			3976.00	
HMV	5.00			3981.00	
Packer	4.00			3985.00	20.00 Bottom Of Top Packer
Packer	5.00			3990.00	
Stubb	1.00			3991.00	
Perforations	1.00			3992.00	
Recorder	0.01	3017	Inside	3992.01	
Perforations	15.00			4007.01	
Recorder	0.01	13308	Outside	4007.02	
Bullnose	3.00			4010.02	20.02 Bottom Packers & Anchor

**Total Tool Length: 40.02**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

V.J.I.Natural Res. Inc.

**Holley # 6-B**

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Astoria, NY 11103

**31-8s-24w Graham KS**

ATTN: Jason Dinges

Job Ticket: 17440      **DST#: 2**  
Test Start: 2003.02.27 @ 16:54:15

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling mud	0.035

Total Length: 5.00 ft      Total Volume: 0.035 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

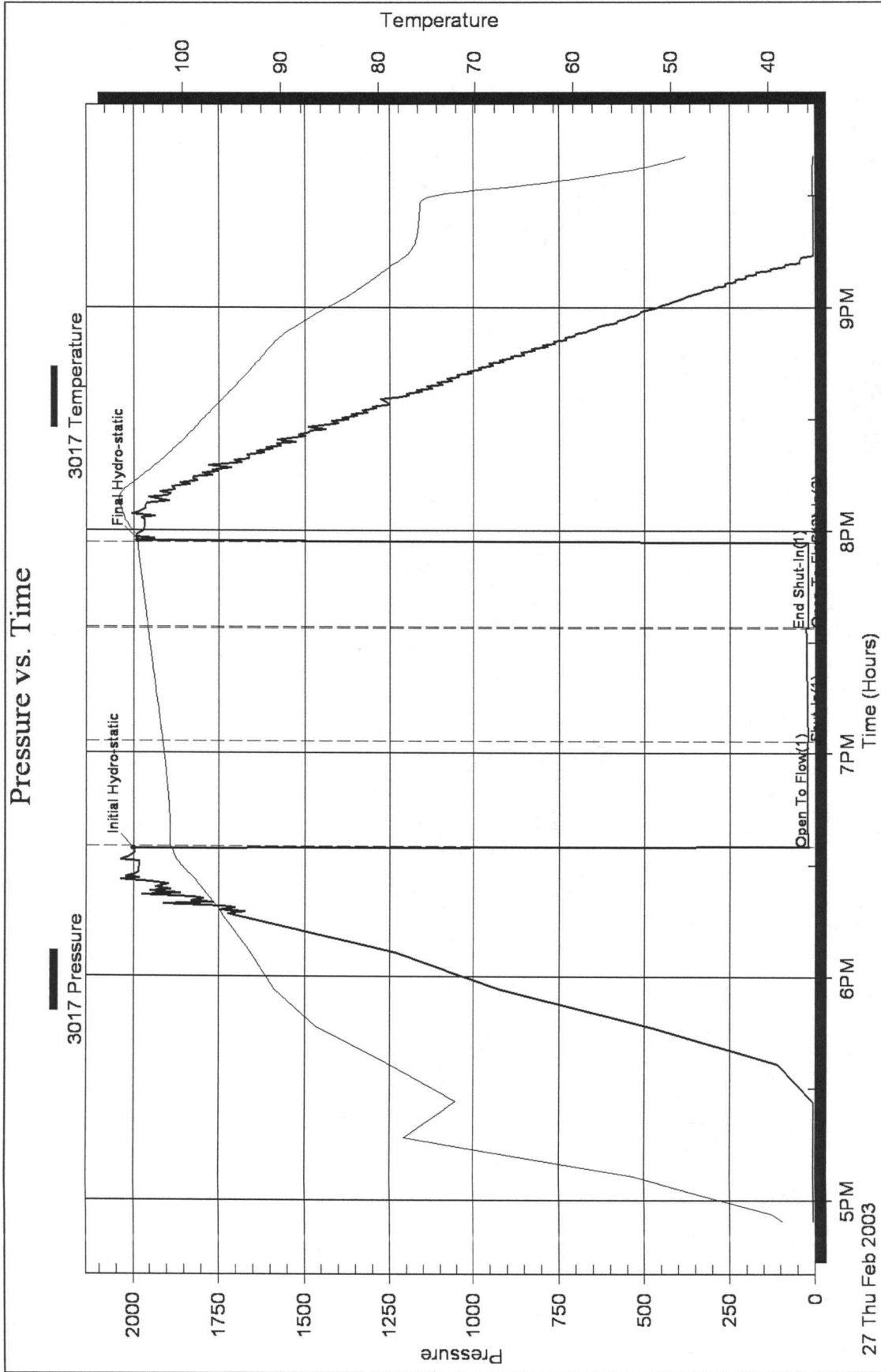
Serial #: 3017

Inside

V.J.I.Natural Res. Inc.

31-8s-24w Graham KS

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **V.J.I.Natural Res. Inc.**

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

ATTN: Jason Dinges

**31-8s-24w Graham KS**

**Holley # 6-B**

Start Date: 2003.02.28 @ 11:17:56

End Date: 2003.02.28 @ 17:45:26

Job Ticket #: 17441                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

V.J.I.Natural Res. Inc.

Holley # 6-B

31-8s-24w Graham KS

DST # 3

L.Kc.-1

2003.02.28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

V.J.I.Natural Res. Inc.

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

ATTN: Jason Dinges

**Holley # 6-B**

**31-8s-24w Graham KS**

Job Ticket: 17441

**DST#: 3**

Test Start: 2003.02.28 @ 11:17:56

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:42:56

Time Test Ended: 17:45:26

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 18

Interval: **3950.00 ft (KB) To 3969.00 ft (KB) (TVD)**

Total Depth: 4050.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2475.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 5.00 ft

## Serial #: 3017

Inside

Press@RunDepth: 142.71 psig @ 3951.01 ft (KB)

Start Date: 2003.02.28

End Date: 2003.02.28

Start Time: 11:17:58

End Time: 17:45:26

Capacity: 7000.00 psig

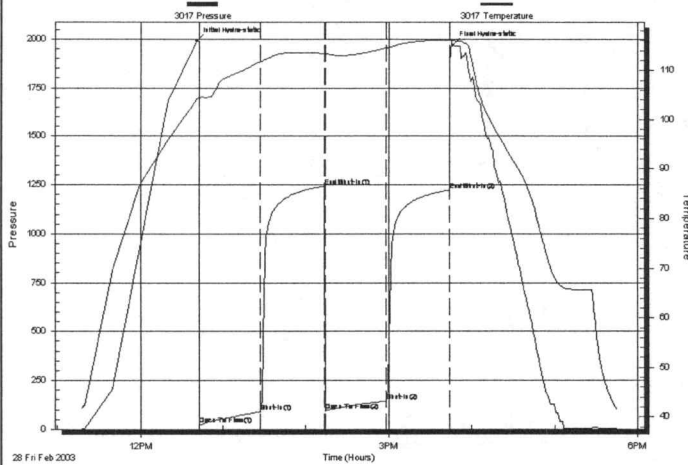
Last Calib.: 2003.02.28

Time On Btm: 2003.02.28 @ 12:40:56

Time Off Btm: 2003.02.28 @ 15:46:26

TEST COMMENT: IF-Fair 7" in ISI-Dead  
FF-Fair 5" in FSI-Very weak blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.53	104.16	Initial Hydro-static
2	21.95	104.37	Open To Flow (1)
47	89.80	111.72	Shut-In(1)
93	1242.71	113.39	End Shut-In(1)
94	93.85	113.39	Open To Flow (2)
138	142.71	114.46	Shut-In(2)
183	1223.00	116.05	End Shut-In(2)
186	1969.38	116.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
270.00	muddy salt water 15% mud-85% w ater	2.05
2.00	oil	0.03
0.00	60 gas in pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

V.J.I.Natural Res. Inc.

**Holley # 6-B**

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

**31-8s-24w Graham KS**

Job Ticket: 17441

**DST#: 3**

ATTN: Jason Dinges

Test Start: 2003.02.28 @ 11:17:56

### Tool Information

Drill Pipe:	Length: 3701.00 ft	Diameter: 3.80 inches	Volume: 51.92 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.70 inches	Volume: 1.77 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: 53.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3950.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3965.02 ft			
Interval between Packers:	15.02 ft			
Tool Length:	120.03 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			3931.00	
S.I. Tool	5.00			3936.00	
HMV	5.00			3941.00	
Packer	4.00			3945.00	20.00 Bottom Of Top Packer
Packer	5.00			3950.00	
Stubb	1.00			3951.00	
Recorder	0.01	3017	Inside	3951.01	
Perforations	13.00			3964.01	
Recorder	0.01	13308	Outside	3964.02	
Blank Off Sub	1.00			3965.02	15.02 Tool Interval
Packer	4.00			3969.02	
Blank Spacing	78.00			4047.02	
Recorder	0.01	24174	Below	4047.03	
Bullnose	3.00			4050.03	85.01 Bottom Packers & Anchor

**Total Tool Length: 120.03**



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Astoria, NY 11103

**31-8s-24w Graham KS**

Job Ticket: 17441

**DST#: 3**

ATTN: Jason Dinges

Test Start: 2003.02.28 @ 11:17:56

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	muddy salt water 15%mud-85%w ater	2.051
2.00	oil	0.028
0.00	60 gas in pipe	0.000

Total Length: 272.00 ft      Total Volume: 2.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

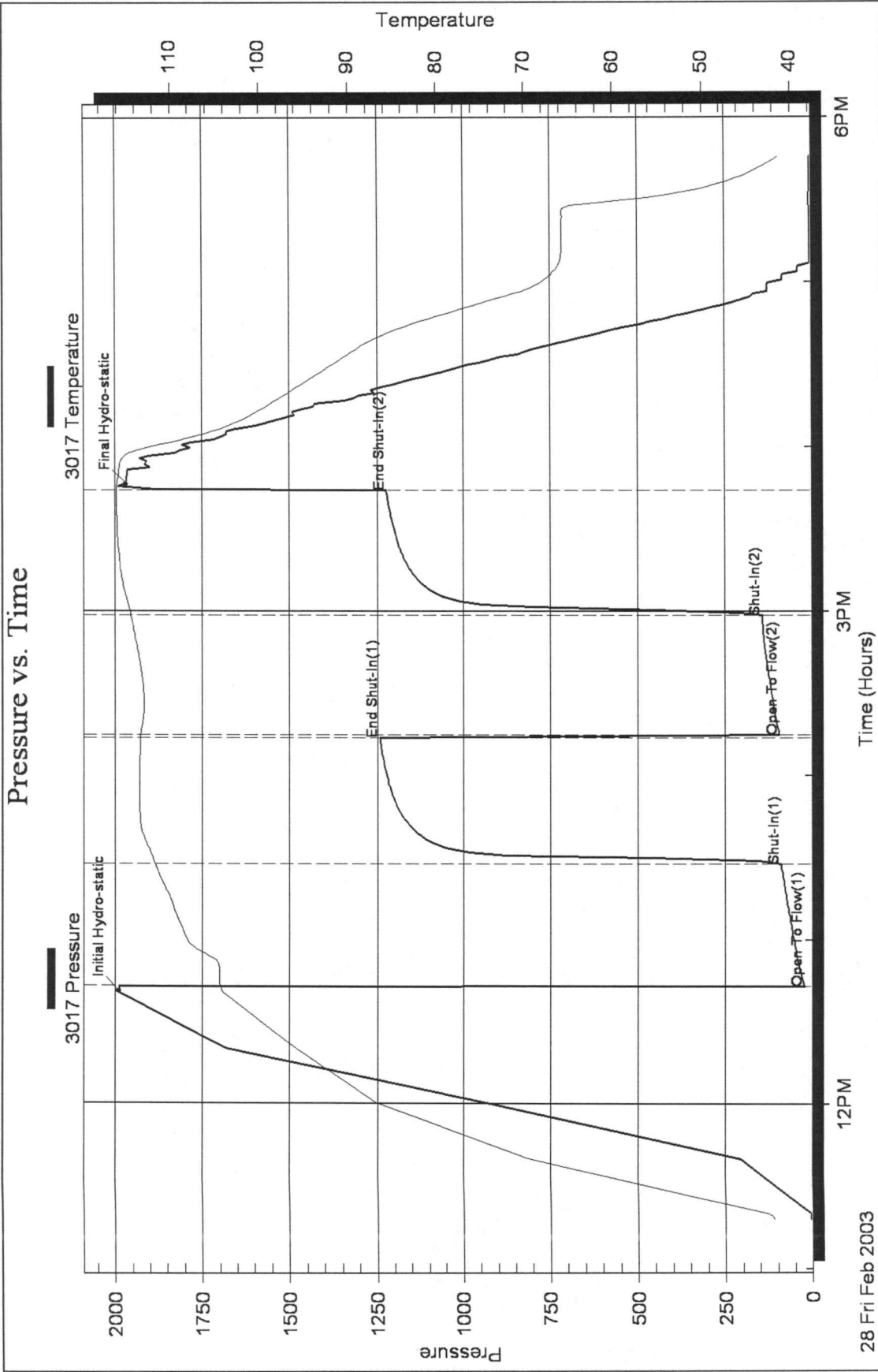
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



28 Fri Feb 2003