



DRILL STEM TEST REPORT

Prepared For: **V J I Natural Resources**

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

30-8S-24W Graham KS

Holley #2-B

Start Date: 2003.03.06 @ 20:49:20

End Date: 2003.03.07 @ 03:17:50

Job Ticket #: 16188 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 Resources

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

Holley #2-B

30-8S-24W Graham KS

Job Ticket: 16188

DST#: 1

Test Start: 2003.03.06 @ 20:49:20

GENERAL INFORMATION:

Formation: **Lans/KC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:15:35

Time Test Ended: 03:17:50

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3812.00 ft (KB) To 3835.00 ft (KB) (TVD)**

Total Depth: 3835.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2740.00 ft (KB)

2735.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3027 Inside

Press@RunDepth: 176.44 psig @ 3813.00 ft (KB)

Start Date: 2003.03.06

End Date:

2003.03.07

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 20:49:25

End Time:

03:17:49

Time On Btm: 2003.03.06 @ 22:13:05

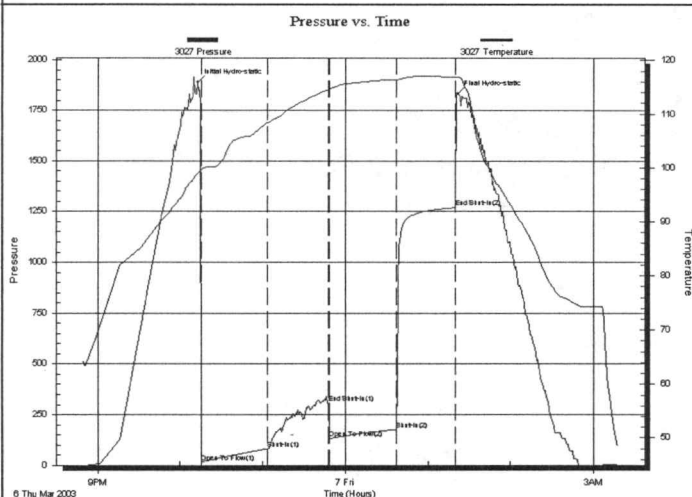
Time Off Btm: 2003.03.07 @ 01:21:35

TEST COMMENT: IF; Weak blow slowly built to 4"

IS; No return

FF; Weak blow slowly built to 4"

FS; No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.61	98.85	Initial Hydro-static
3	15.02	99.62	Open To Flow (1)
51	82.21	108.30	Shut-In(1)
95	306.84	114.53	End Shut-In(1)
96	129.92	114.64	Open To Flow (2)
144	176.44	116.39	Shut-In(2)
187	1269.87	116.83	End Shut-In(2)
189	1832.89	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	MW w/trc of oil @ top	2.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16188

DST#: 1

ATTN: Jason Dinges

Test Start: 2003.03.06 @ 20:49:20

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.80 inches	Volume: 2.37 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3812.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3797.00	
Hydraulic tool	5.00			3802.00	
Packer	5.00			3807.00	20.00 Bottom Of Top Packer
Packer	5.00			3812.00	
Stubb	1.00			3813.00	
Recorder	0.00	3027	Inside	3813.00	
Perforations	17.00			3830.00	
Recorder	0.00	13309	Outside	3830.00	
Bullnose	5.00			3835.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16188

DST#: 1

ATTN: Jason Dinges

Test Start: 2003.03.06 @ 20:49:20

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:

25000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	MW w/trc of oil @ top	2.635

Total Length: 330.00 ft Total Volume: 2.635 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .30 @ 65 deg = 25000 Chlorides

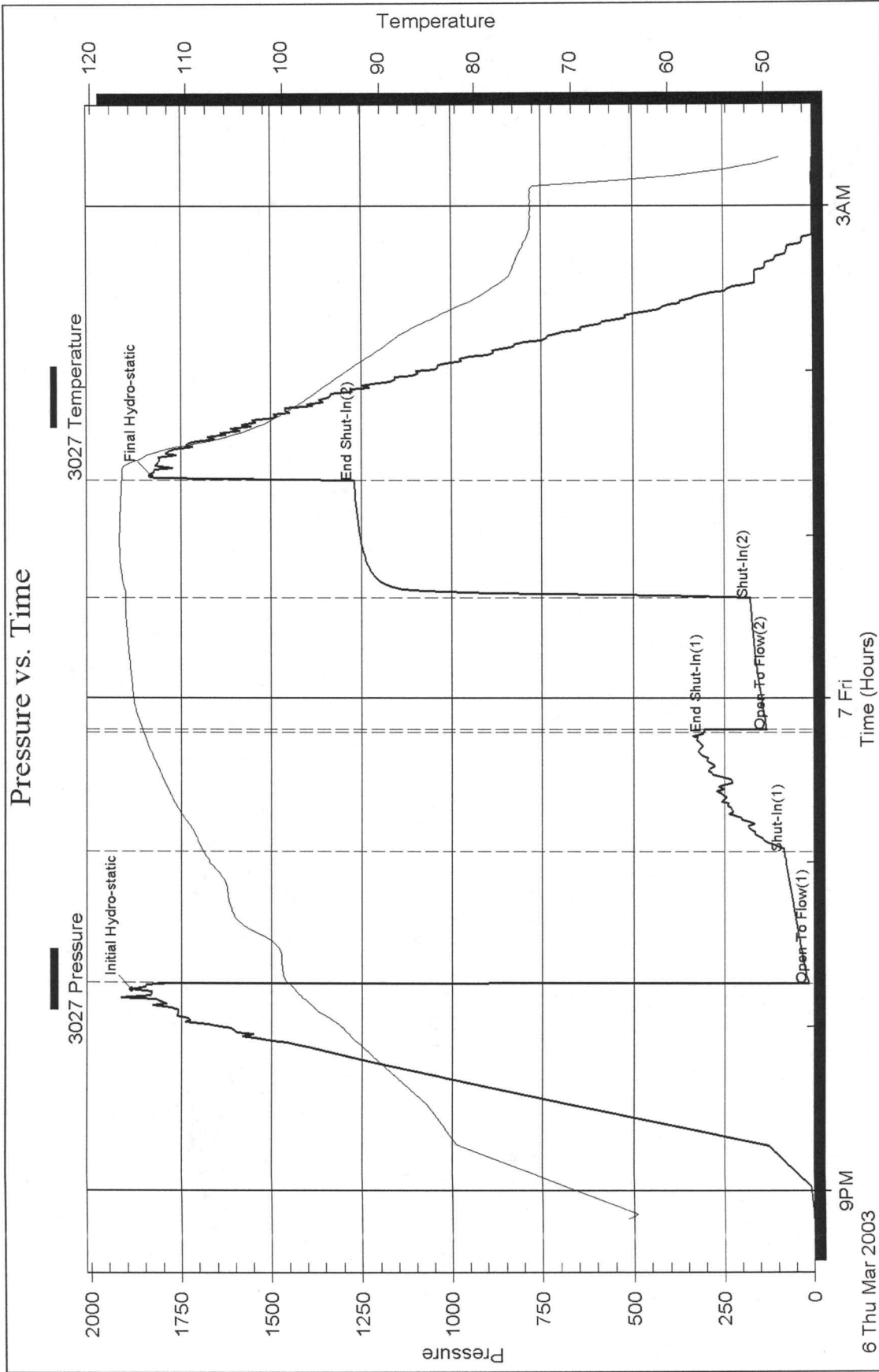
Serial #: 3027

Inside

V J I Natural Resources

30-8S-24W Graham KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **V J I Natural Resources**

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

30-8S-24W Graham KS

Holley #2-B

Start Date: 2003.03.07 @ 14:42:54

End Date: 2003.03.07 @ 20:19:39

Job Ticket #: 16189 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

V J I Natural Resources

Holley #2-B

30-8S-24W Graham KS

DST # 2

L/KC "C-F"

2003.03.07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

V J I Natural Resources
 30-38 48th St.
 Astoria NY 11103
 ATTN: Jason Dinges

Holley #2-B

30-8S-24W Graham KS

Job Ticket: 16189 **DST#: 2**
 Test Start: 2003.03.07 @ 14:42:54

GENERAL INFORMATION:

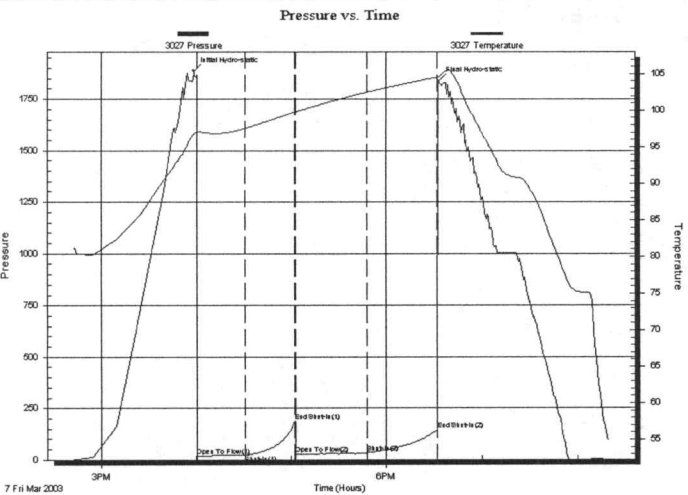
Formation: **L/KC "C-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:00:54
 Time Test Ended: 20:19:39
 Interval: **3835.00 ft (KB) To 3880.00 ft (KB) (TVD)**
 Total Depth: 3880.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Rod Steinbrink
 Unit No: 22
 Reference Elevations: 2740.00 ft (KB)
 2735.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 3027

Inside

Press@RunDepth: 32.88 psig @ 3836.00 ft (KB)
 Start Date: 2003.03.07 End Date: 2003.03.07
 Start Time: 14:42:59 End Time: 20:19:38
 Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2003.03.07 @ 15:58:39
 Time Off Btm: 2003.03.07 @ 18:33:09

TEST COMMENT: IF; Weak blow decreased to intermitten last 10 mins
 FF; Very weak intermitten blow



PRESSURE SUMMARY

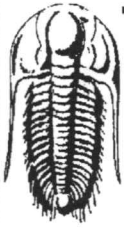
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.33	96.70	Initial Hydro-static
3	17.34	96.79	Open To Flow (1)
33	24.33	97.54	Shut-In(1)
64	187.81	99.76	End Shut-In(1)
65	27.80	99.83	Open To Flow (2)
110	32.88	102.50	Shut-In(2)
154	145.56	104.54	End Shut-In(2)
155	1838.84	104.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly OCM 3%oil 97%mud	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16189

DST#: 2

ATTN: Jason Dinges

Test Start: 2003.03.07 @ 14:42:54

Tool Information

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.80 inches	Volume: 2.37 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3835.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3820.00	
Hydraulic tool	5.00			3825.00	
Packer	5.00			3830.00	20.00 Bottom Of Top Packer
Packer	5.00			3835.00	
Stubb	1.00			3836.00	
Recorder	0.00	3027	Inside	3836.00	
Perforations	18.00			3854.00	
Anchor	31.00			3885.00	
Recorder	0.00	13309	Outside	3885.00	
Bullnose	5.00			3890.00	55.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



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FLUID SUMMARY

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16189

DST#: 2

ATTN: Jason Dinges

Test Start: 2003.03.07 @ 14:42:54

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Slightly OCM 3%oil 97%mud	0.152

Total Length: 20.00 ft

Total Volume: 0.152 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

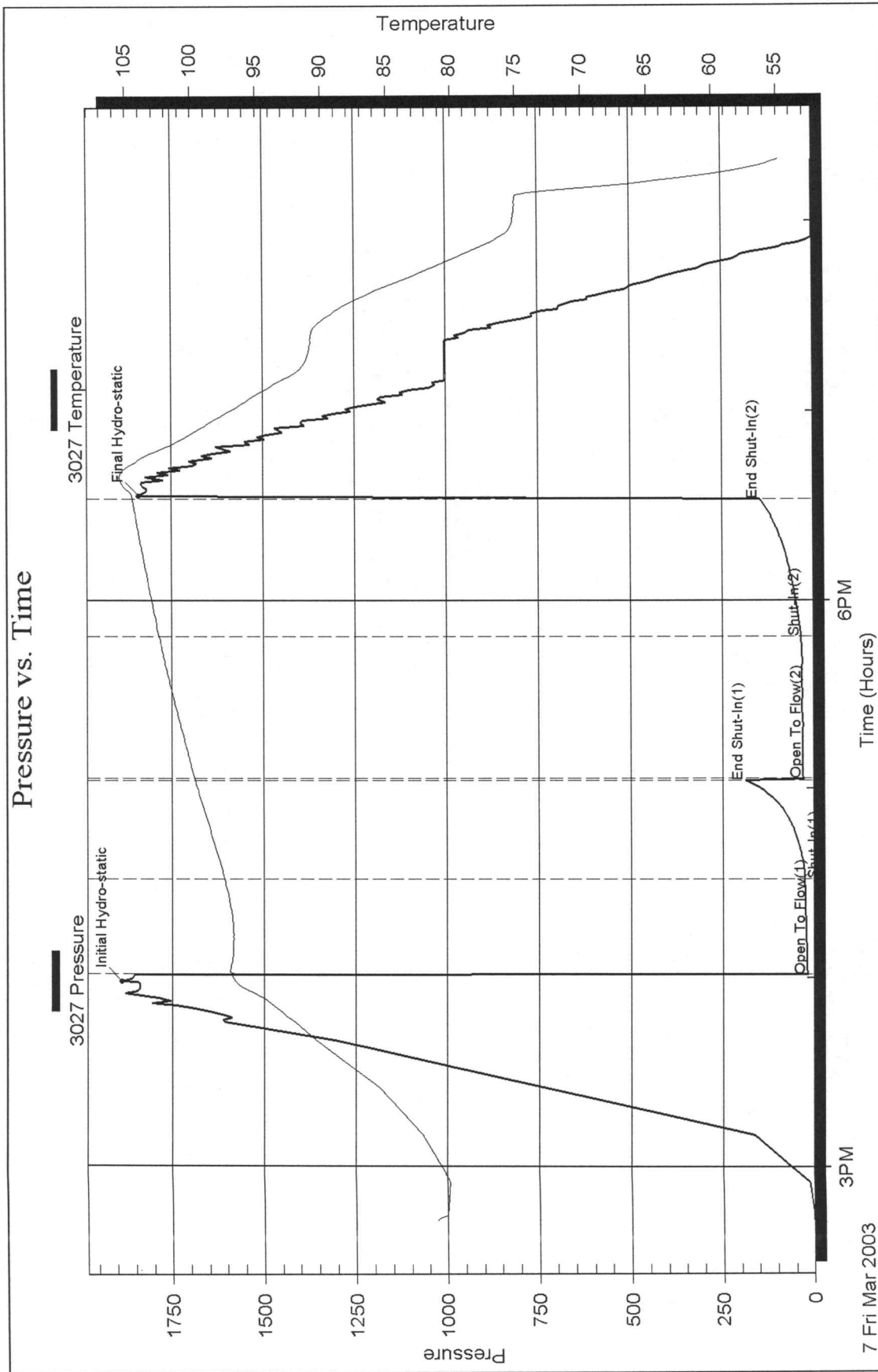
Serial #: 3027

Inside

V J I Natural Resources

30-8S-24W Graham KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **V J I Natural Resources**

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

30-8S-24W Graham KS

Holley #2-B

Start Date: 2003.03.08 @ 06:16:08

End Date: 2003.03.08 @ 12:30:23

Job Ticket #: 16190 DST #: 3

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 Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

ATTN: Jason Dinges

Job Ticket: 16190

DST#: 3

Test Start: 2003.03.08 @ 06:16:08

GENERAL INFORMATION:

Formation: **L/KC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:56:38

Time Test Ended: 12:30:23

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **3902.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2735.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3027 Inside

Press@RunDepth: 59.78 psig @ 3903.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.03.08

End Date: 2003.03.08

Last Calib.: 1899.12.30

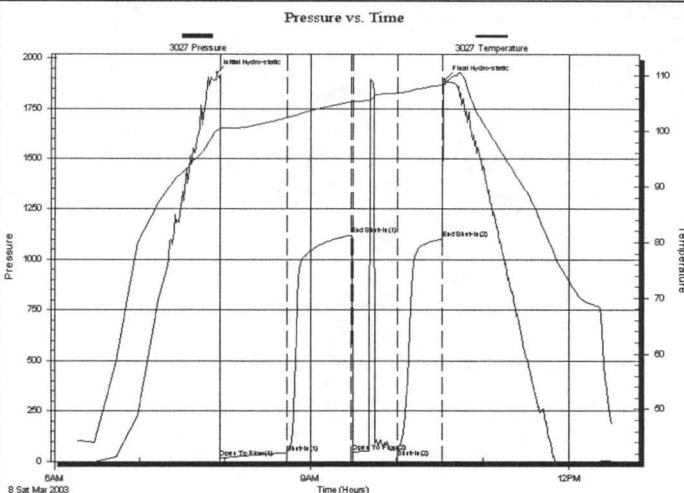
Start Time: 06:16:13

End Time: 12:30:22

Time On Btm: 2003.03.08 @ 07:53:53

Time Off Btm: 2003.03.08 @ 10:33:23

TEST COMMENT: IF; Weak 1/4" blow steady thru
IS; No blow
FF; No return - flushed tool/good surge - no blow
FS; No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.48	100.13	Initial Hydro-static
3	16.14	100.51	Open To Flow (1)
50	43.84	102.48	Shut-In (1)
95	1121.44	105.33	End Shut-In (1)
96	47.12	105.44	Open To Flow (2)
127	59.78	106.92	Shut-In (2)
158	1103.16	108.38	End Shut-In (2)
160	1893.43	108.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drlg. Mud w/show of oil @ top 1%oil 99%0.53	

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16190

DST#: 3

ATTN: Jason Dinges

Test Start: 2003.03.08 @ 06:16:08

Tool Information

Drill Pipe:	Length: 3581.00 ft	Diameter: 3.80 inches	Volume: 50.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.80 inches	Volume: 2.37 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 52.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3902.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3887.00	
Hydraulic tool	5.00			3892.00	
Packer	5.00			3897.00	20.00 Bottom Of Top Packer
Packer	5.00			3902.00	
Stubb	1.00			3903.00	
Recorder	0.00	3027	Inside	3903.00	
Perforations	1.00			3904.00	
Anchor	31.00			3935.00	
Recorder	0.00	13309	Outside	3935.00	
Bullnose	5.00			3940.00	38.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16190

DST#: 3

ATTN: Jason Dinges

Test Start: 2003.03.08 @ 06:16:08

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: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drig. Mud w/show of oil @ top 1%oil 99%m	0.533

Total Length: 70.00 ft

Total Volume: 0.533 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

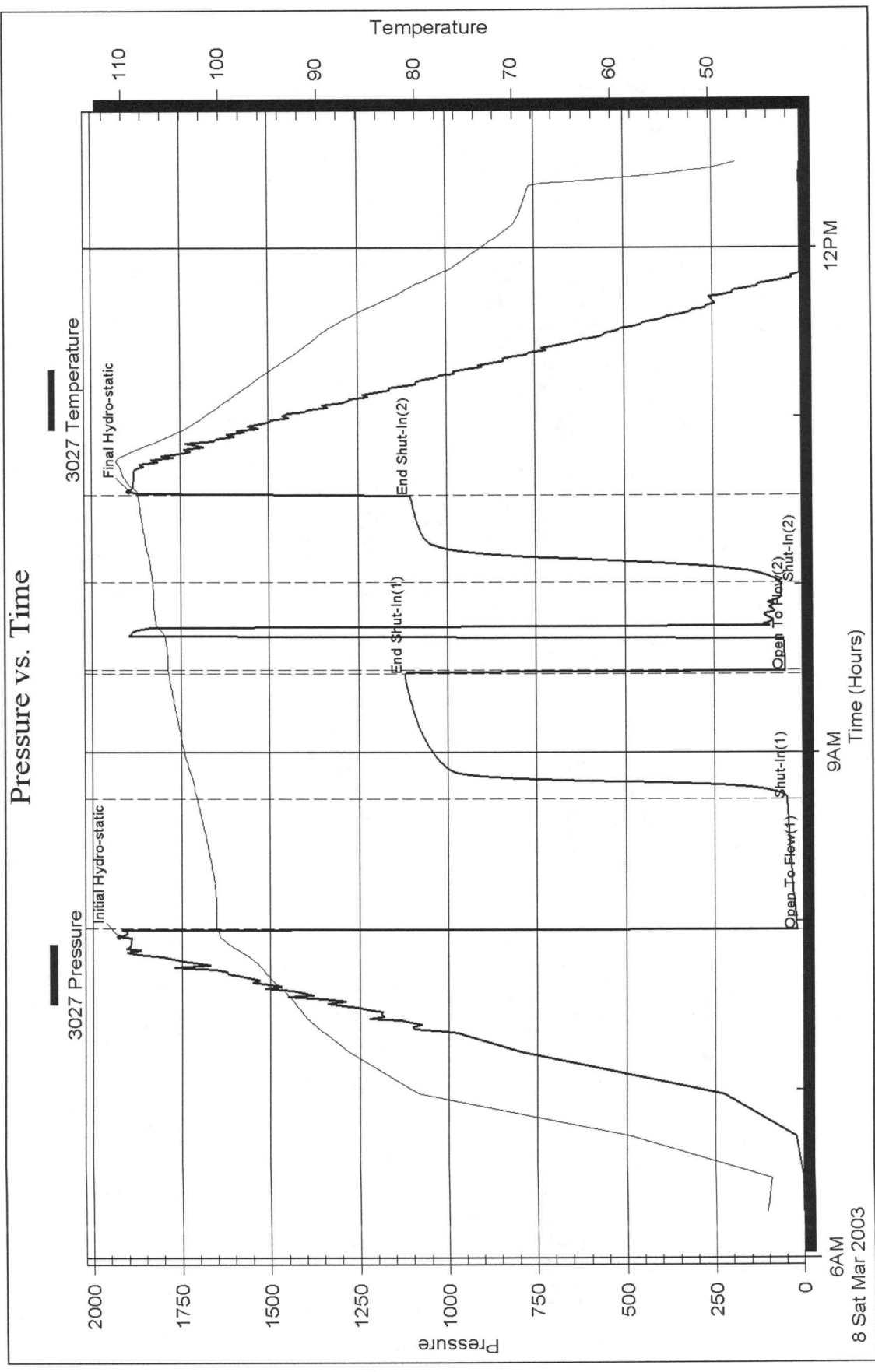
Serial #: 3027

Inside

V J I Natural Resources

30-8S-24W Graham KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **V J I Natural Resources**

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

30-8S-24W Graham KS

Holley #2-B

Start Date: 2003.03.08 @ 20:20:08

End Date: 2003.03.09 @ 04:29:07

Job Ticket #: 16915 DST #: 4

Trilobite Testing, Inc

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

V J I Natural Resources

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

Holley #2-B

30-8S-24W Graham KS

Job Ticket: 16915

DST#: 4

Test Start: 2003.03.08 @ 20:20:08

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:37

Time Test Ended: 04:29:07

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3936.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2735.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 273.03 psig @ 3937.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.03.08

End Date:

2003.03.09

Last Calib.:

2003.03.09

Start Time: 20:20:08

End Time:

04:29:07

Time On Btm:

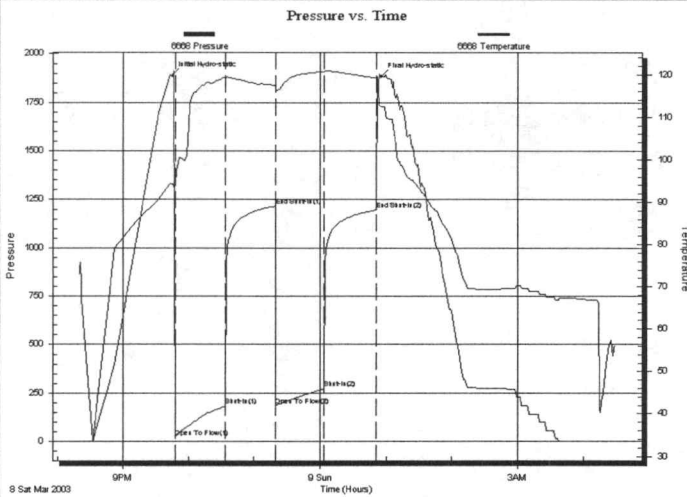
2003.03.08 @ 21:44:37

Time Off Btm:

2003.03.09 @ 00:55:37

TEST COMMENT:

IFP-w k to strg in 12min
FFP-w k to a gd bl 1" to 7 1/2"bl
Times 45-45-45-45
w k bl bk on shut-in



PRESSURE SUMMARY

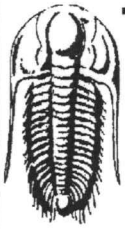
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.44	94.37	Initial Hydro-static
3	21.90	93.87	Open To Flow (1)
49	182.63	119.01	Shut-In(1)
95	1216.44	117.42	End Shut-In(1)
95	186.16	116.74	Open To Flow (2)
139	273.03	120.64	Shut-In(2)
187	1196.76	119.12	End Shut-In(2)
191	1882.94	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	CO	0.70
40.00	SOCMW 3%oil 10%mud 87%w ater	0.56
360.00	Water RW.15@73F	5.05
0.00	210 Gip	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 Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16915

DST#: 4

ATTN: Jason Dinges

Test Start: 2003.03.08 @ 20:20:08

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3936.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 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
Change Over Sub	1.00			3916.00	
Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00			3926.00	
Packer	5.00			3931.00	21.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Stubb	1.00			3937.00	
Recorder	0.01	6668	Inside	3937.01	
Perforations	20.00			3957.01	
Recorder	0.01	11085	Inside	3957.02	
Bullnose	3.00			3960.02	24.02 Bottom Packers & Anchor
Total Tool Length:	45.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

V J I Natural Resources

Holley #2-B

30-38 48th St.
Astoria NY 11103

30-8S-24W Graham KS

Job Ticket: 16915

DST#: 4

ATTN: Jason Dinges

Test Start: 2003.03.08 @ 20:20:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	CO	0.701
40.00	SOCMV 3%oil 10%mud 87%water	0.561
360.00	Water RW.15@73F	5.050
0.00	210 Gip	0.000

Total Length: 450.00 ft

Total Volume: 6.312 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **V J I Natural Resources**

30-38 48th St.
Astoria NY 11103

ATTN: Jason Dinges

30-8S-24W Graham KS

Holley #2-B

Start Date: 2003.03.09 @ 16:34:29

End Date: 2003.03.09 @ 21:32:28

Job Ticket #: 16916 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

V J I Natural Resources

Holley #2-B

30-8S-24W Graham KS

DST # 5

LKC "K"

2003.03.09



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Job Ticket: 16916

DST#: 5

Test Start: 2003.03.09 @ 16:34:29

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:35:58

Time Test Ended: 21:32:28

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3972.00 ft (KB) To 4000.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2735.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 11.78 psig @ 3973.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.03.09

End Date: 2003.03.09

Last Calib.: 2003.03.09

Start Time: 16:34:29

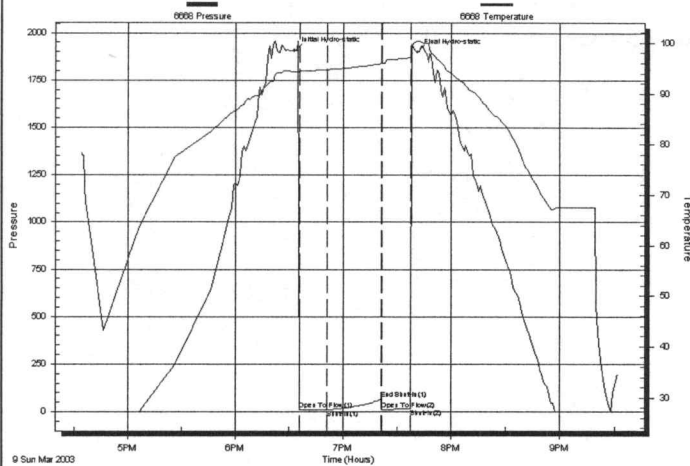
End Time: 21:32:28

Time On Btm: 2003.03.09 @ 18:32:58

Time Off Btm: 2003.03.09 @ 19:40:58

TEST COMMENT: IFP- vy w k bl died in 6 min
FFP-no bl flushed tool
Times 15-30-15

Pressure vs. Time



PRESSURE SUMMARY

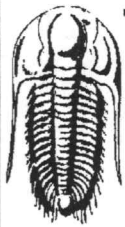
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.46	94.33	Initial Hydro-static
3	11.56	94.33	Open To Flow (1)
18	11.78	94.72	Shut-In(1)
48	64.39	95.92	End Shut-In(1)
49	11.32	95.91	Open To Flow (2)
65	13.36	97.15	Shut-In(2)
68	1898.93	100.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.03

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3972.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.02 ft			
Tool Length:	49.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3952.00	
Shut In Tool	5.00			3957.00	
Hydraulic tool	5.00			3962.00	
Packer	5.00			3967.00	21.00 Bottom Of Top Packer
Packer	5.00			3972.00	
Stubb	1.00			3973.00	
Recorder	0.01	6668	Inside	3973.01	
Perforations	24.00			3997.01	
Recorder	0.01	11085	Inside	3997.02	
Bullnose	3.00			4000.02	28.02 Bottom Packers & Anchor
Total Tool Length:	49.02				



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FLUID SUMMARY

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Job Ticket: 16916

DST#: 5

ATTN: Jason Dinges

Test Start: 2003.03.09 @ 16:34:29

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.028

Total Length: 2.00 ft

Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

Inside

V J I Natural Resources

30-8S-24W Graham KS

DST Test Number: 5

