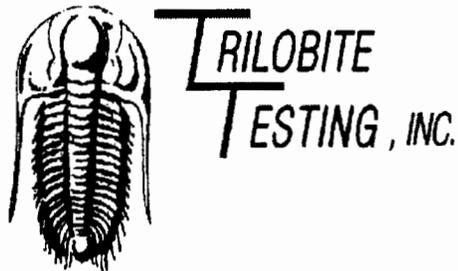


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ORIGINAL



## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources**

30-38 40th Street  
Astoria NY 11103

ATTN: Jason Dinges

**33 22s 17w Pawnee**

**Chicago Ranch 1-A**

Start Date: 2005.01.17 @ 15:42:15

End Date: 2005.01.17 @ 23:46:15

Job Ticket #: 21172                      DST #: 1

15-145-21508-00-00

SE SE SE

330 FSL      480 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

VJI Natural Resources

Chicago Ranch 1-A

33 22s 17w Pawnee

DST # 1

Cherokee

2005.01.17



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

VJI Natural Resources

30-38 40th Street  
Astoria NY 11103

ATTN: Jason Dinges

**Chicago Ranch 1-A**

**33 22s 17w Pawnee**

Job Ticket: 21172

**DST#: 1**

Test Start: 2005.01.17 @ 15:42:15

## GENERAL INFORMATION:

Formation: **Cherokee**

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

Time Tool Opened: 18:03:45

Time Test Ended: 23:46:15

Test Type: **Conventional Bottom Hole**

Tester: **Paul Simpson**

Unit No: **21**

Interval: **4071.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Total Depth: **4120.00 ft (KB) (TVD)**

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

Reference Elevations: **2056.00 ft (KB)**

**2050.00 ft (CF)**

KB to GR/CF: **6.00 ft**

**Serial #: 6799**

**Inside**

Press@RunDepth: **76.68 psig @ 4075.00 ft (KB)**

Start Date: **2005.01.17**

End Date: **2005.01.17**

Capacity: **7000.00 psig**

Last Calib.: **2004.04.17**

Start Time: **15:42:16**

End Time: **23:46:15**

Time On Btm: **2005.01.17 @ 18:01:45**

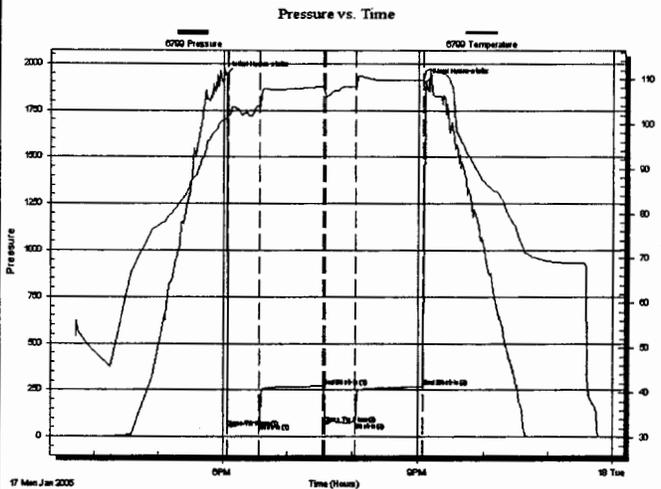
Time Off Btm: **2005.01.17 @ 21:06:15**

**TEST COMMENT:** F- strong blow bottom of bucket in 45 seconds GTS in 8 minutes

IS- no blow

FF-gauging gas

FSI weak surface blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.25	101.14	Initial Hydro-static
2	48.94	101.64	Open To Flow (1)
33	70.83	103.97	Shut-In(1)
92	270.02	108.35	End Shut-In(1)
93	69.93	105.89	Open To Flow (2)
122	76.68	108.26	Shut-In(2)
183	266.51	109.79	End Shut-In(2)
185	1899.80	111.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	gsy ocm 5% G 15% O 85%M	2.10

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	13.00	43.47
Last Gas Rate	0.38	5.00	71.07
Max. Gas Rate	0.38	16.00	111.36



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Resources

Chicago Ranch 1-A

30-38 40th Street  
Astoria NY 11103

33 22s 17w Pawnee

Job Ticket: 21172

DST#: 1

ATTN: Jason Dinges

Test Start: 2005.01.17 @ 15:42:15

### Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 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: 56.95 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4071.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4043.00	
Shut In Tool	5.00			4048.00	
Hydraulic tool	5.00			4053.00	
Jars	5.00			4058.00	
Safety Joint	3.00			4061.00	
Packer	5.00			4066.00	29.00 Bottom Of Top Packer
Packer	5.00			4071.00	
Stubb	1.00			4072.00	
Perforations	2.00			4074.00	
Change Over Sub	1.00			4075.00	
Recorder	0.00	6799	Inside	4075.00	
Drill Pipe	31.00			4106.00	
Change Over Sub	1.00			4107.00	
Recorder	0.00	13254	Outside	4107.00	
Perforations	10.00			4117.00	
Bullnose	3.00			4120.00	49.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>78.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

VJI Natural Resources

**Chicago Ranch 1-A**

30-38 40th Street  
Astoria NY 11103

**33 22s 17w Pawnee**

Job Ticket: 21172

**DST#: 1**

ATTN: Jason Dinges

Test Start: 2005.01.17 @ 15:42:15

## 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 4.79 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
150.00	gsy ocm 5% G 15% O 85%M	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:

Laboratory Name: Caraway      Laboratory Location: Liberal, KS

Recovery Comments: mud already had oil in it from stuck pipe



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

VJI Natural Resources

**Chicago Ranch 1-A**

30-38 40th Street  
Astoria NY 11103

**33 22s 17w Pawnee**

Job Ticket: 21172

**DST#: 1**

ATTN: Jason Dinges

Test Start: 2005.01.17 @ 15:42:15

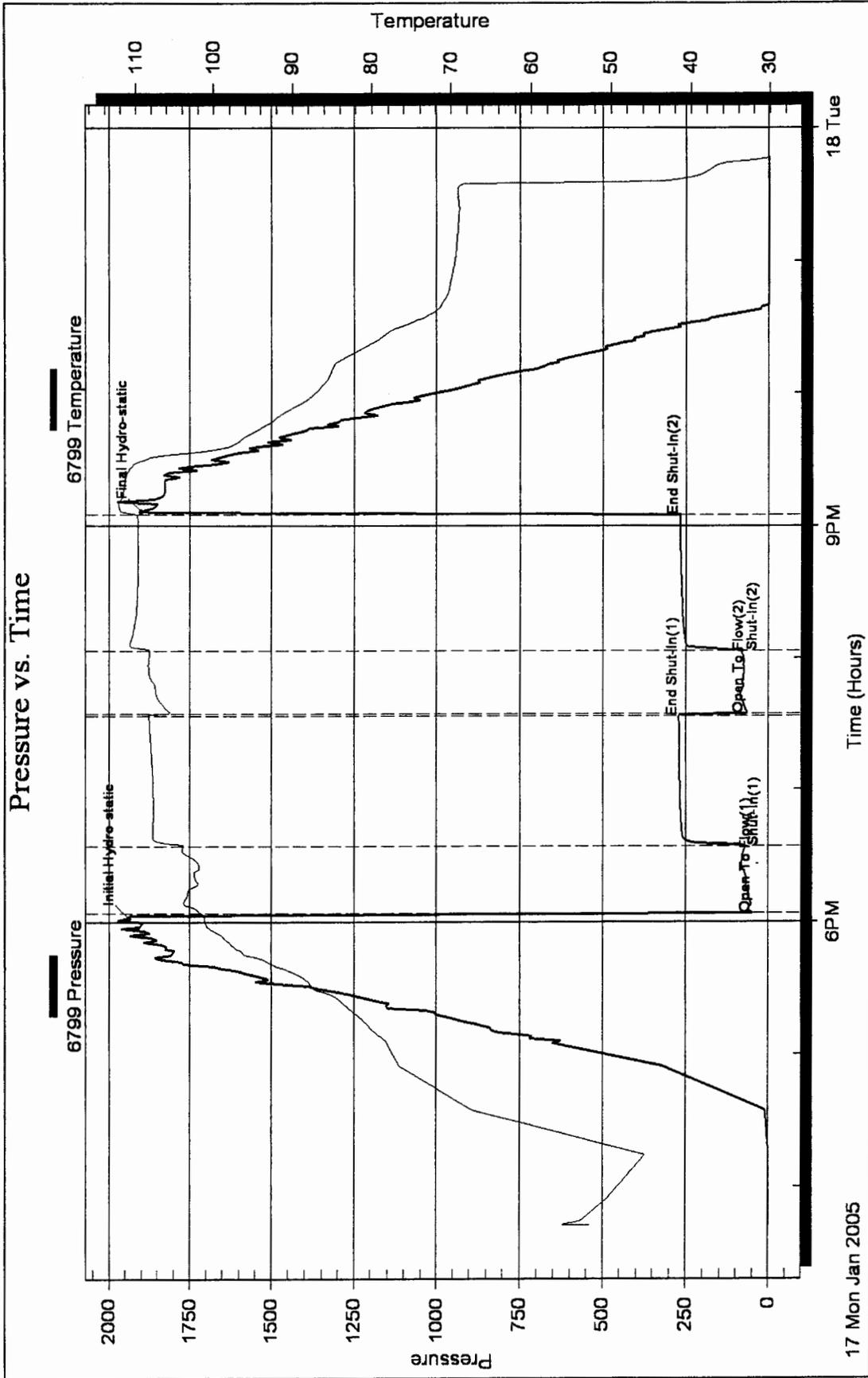
### Gas Rates Information

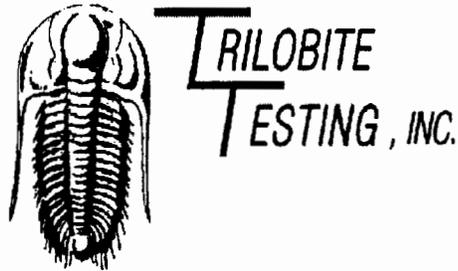
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.25	13.00	43.47
1	20	0.38	16.00	111.36
1	25	0.50	4.00	124.12
1	30	0.38	5.00	71.07
2	5	0.38	14.00	104.04
2	10	0.38	13.00	100.37
2	20	0.38	8.00	82.06
2	30	0.38	5.00	71.07

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources**

30-38 40th Street  
Astoria NY 11103

ATTN: Jason Dinges

**33 22s 17w Pawnee**

**Chicago Ranch 1-A**

Start Date: 2005.01.18 @ 08:27:15

End Date: 2005.01.18 @ 17:00:00

Job Ticket #: 21173                      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**

**TOOL DIAGRAM**

VJI Natural Resources

**Chicago Ranch 1-A**

30-38 40th Street  
Astoria NY 11103

**33 22s 17w Pawnee**

Job Ticket: 21173

**DST#: 2**

ATTN: Jason Dinges

Test Start: 2005.01.18 @ 08:27:15

**Tool Information**

Drill Pipe:	Length: 4121.00 ft	Diameter: 3.80 inches	Volume: 57.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 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: 57.81 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4119.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.01 ft			
Tool Length:	60.01 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			4091.00	
Shut In Tool	5.00			4096.00	
Hydraulic tool	5.00			4101.00	
Jars	5.00			4106.00	
Safety Joint	3.00			4109.00	
Packer	5.00			4114.00	29.00 Bottom Of Top Packer
Packer	5.00			4119.00	
Stubb	1.00			4120.00	
Perforations	2.00			4122.00	
Recorder	0.00	6799	Inside	4122.00	
Perforations	25.00			4147.00	
Recorder	0.01	13254		4147.01	
Bullnose	3.00			4150.01	31.01 Bottom Packers & Anchor

**Total Tool Length: 60.01**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Resources

Chicago Ranch 1-A

30-38 40th Street  
Astoria NY 11103

33 22s 17w Pawnee

Job Ticket: 21173

DST#: 2

ATTN: Jason Dinges

Test Start: 2005.01.18 @ 08:27:15

## 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: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 14000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
900.00	mud	12.625

Total Length: 900.00 ft      Total Volume: 12.625 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

