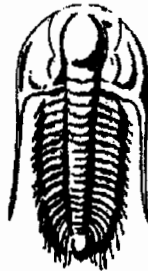


15-145-21485

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 22 2003

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Clute Oil Corp**
4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

32-22s-17w

Dave Welch # 1

Start Date: 2003.01.06 @ 23:00:29
End Date: 2003.01.07 @ 04:07:59
Job Ticket #: 16772 DST #: 1

Clute Oil Corp
Dave Welch # 1
32-22s-17w
DST # 1
Chase
2003.01.06

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

Clute Oil Corp
4300 S. Dahlia St.
Englewood, Co. 80110-6101

Dave Welch # 1

32-22s-17w

Job Ticket: 16772

DST#: 1

ATTN: Peter Clute

Test Start: 2003.01.06 @ 23:00:29

Tool Information

Drill Pipe:	Length: 1898.00 ft	Diameter: 3.80 inches	Volume: 26.62 bbl	Tool Weight: 3300.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 27.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2135.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.02 ft			
Tool Length:	75.02 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			2116.00	
S.I. Tool	5.00			2121.00	
HMV	5.00			2126.00	
Packer	4.00			2130.00	20.00 Bottom Of Top Packer
Packer	5.00			2135.00	
Stubb	1.00			2136.00	
Perforations	4.00			2140.00	
C.O. Sub	1.00			2141.00	
Recorder	0.01	3017	Inside	2141.01	
Blank Spacing	30.00			2171.01	
C.O. Sub	1.00			2172.01	
Perforations	15.00			2187.01	
Recorder	0.01	13308	Outside	2187.02	
Bullnose	3.00			2190.02	55.02 Bottom Packers & Anchor

Total Tool Length: 75.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

Dave Welch # 1
32-22s-17w
Job Ticket: 16772 **DST#: 1**
Test Start: 2003.01.06 @ 23:00:29

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: 33.00 sec/qt	Cushion Volume: bbl		
Water Loss: 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
20.00	Drilling Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

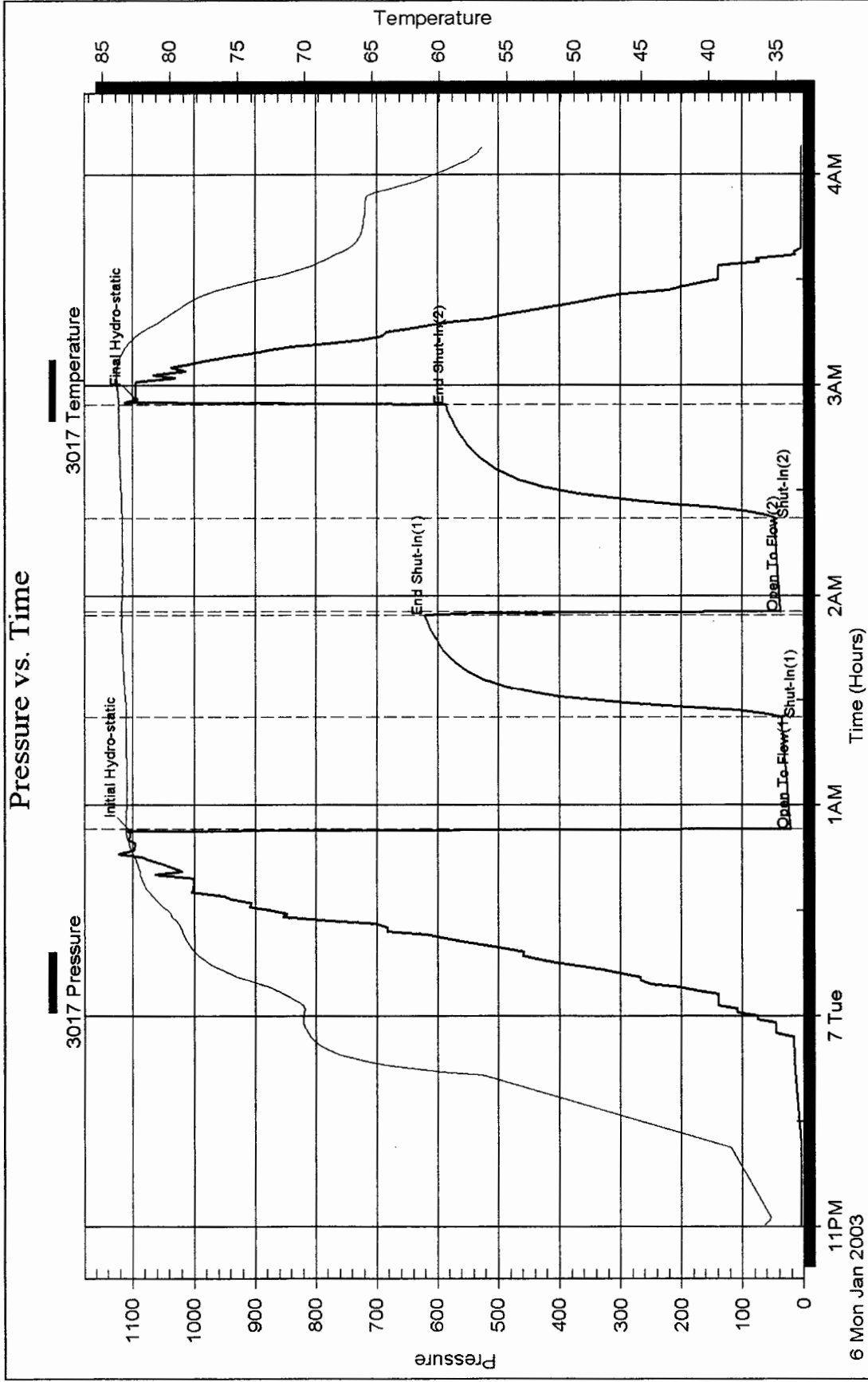
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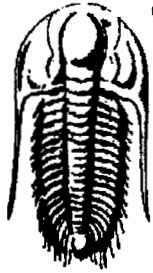
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Clute Oil Corp**

4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

32--22s--17w

Dave Welch # 1

Start Date: 2003.01.09 @ 15:22:02

End Date: 2003.01.09 @ 21:49:02

Job Ticket #: 16773 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Clute Oil Corp

Dave Welch # 1

32--22s--17w

DST # 2

L.Kc.-A&B

2003.01.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101
ATTN: Peter Clute

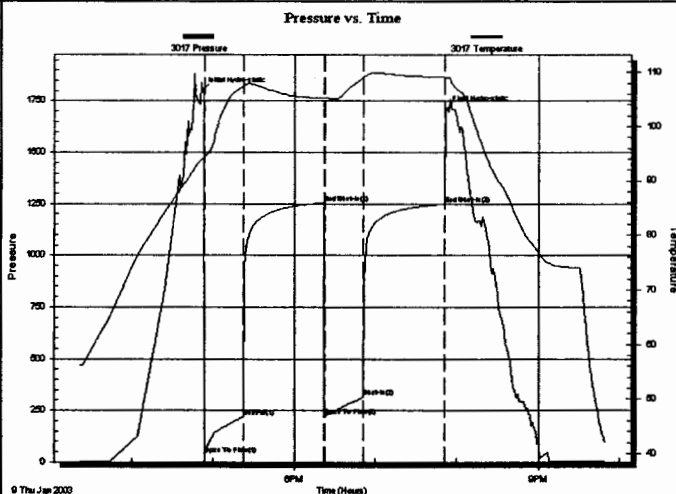
Dave Welch # 1
32--22s--17w
Job Ticket: 16773 **DST#: 2**
Test Start: 2003.01.09 @ 15:22:02

GENERAL INFORMATION:

Formation: **L.Kc.-A&B**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **16:53:32** Tester: **John Schmidt**
Time Test Ended: **21:49:02** Unit No: **18**
Interval: **3713.00 ft (KB) To 3760.00 ft (KB) (TVD)** Reference Elevations: **2080.00 ft (KB)**
Total Depth: **3760.00 ft (KB) (TVD)** **2075.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 3017 **Inside**
Press@RunDepth: **314.09 psig @ 3716.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2003.01.09** End Date: **2003.01.09** Last Calib.: **2003.01.09**
Start Time: **15:22:04** End Time: **21:49:02** Time On Btrr: **2003.01.09 @ 16:51:32**
Time Off Btrr: **2003.01.09 @ 19:52:02**

TEST COMMENT: **IF-Good to Strong B.O.B.7 min.** **ISI-Weak blow back**
FF-Good to Strong B.O.B.10 min. **FSI-Dead**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.51	93.96	Initial Hydro-static
2	37.51	94.35	Open To Flow (1)
31	219.64	107.41	Shut-in(1)
90	1254.95	105.32	End Shut-in(1)
91	222.90	105.32	Open To Flow (2)
120	314.09	109.07	Shut-in(2)
180	1249.76	109.06	End Shut-in(2)
181	1711.11	109.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Muddy Water	6.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

Dave Welch # 1

32-22s-17w

Job Ticket: 16773

DST#: 2

Test Start: 2003.01.09 @ 15:22:02

Tool Information

Drill Pipe:	Length: 3458.00 ft	Diameter: 3.80 inches	Volume: 48.51 bbl	Tool Weight: 3200.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 49.73 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3713.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.02 ft			
Tool Length:	67.02 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			3694.00	
S.I. Tool	5.00			3699.00	
HMV	5.00			3704.00	
Packer	4.00			3708.00	20.00 Bottom Of Top Packer
Packer	5.00			3713.00	
Stubb	1.00			3714.00	
Perforations	1.00			3715.00	
C.O. Sub	1.00			3716.00	
Recorder	0.01	3017	inside	3716.01	
Blank Spacing	30.00			3746.01	
C.O. Sub	1.00			3747.01	
Perforations	10.00			3757.01	
Recorder	0.01	13308	Outside	3757.02	
Bullnose	3.00			3760.02	47.02 Bottom Packers & Anchor

Total Tool Length: 67.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101
ATTN: Peter Clute

Dave Welch # 1
32-22s-17w
Job Ticket: 16773 **DST#:2**
Test Start: 2003.01.09 @ 15:22:02

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:	50000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 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
620.00	Muddy Water	6.438

Total Length: 620.00 ft Total Volume: 6.438 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 3017

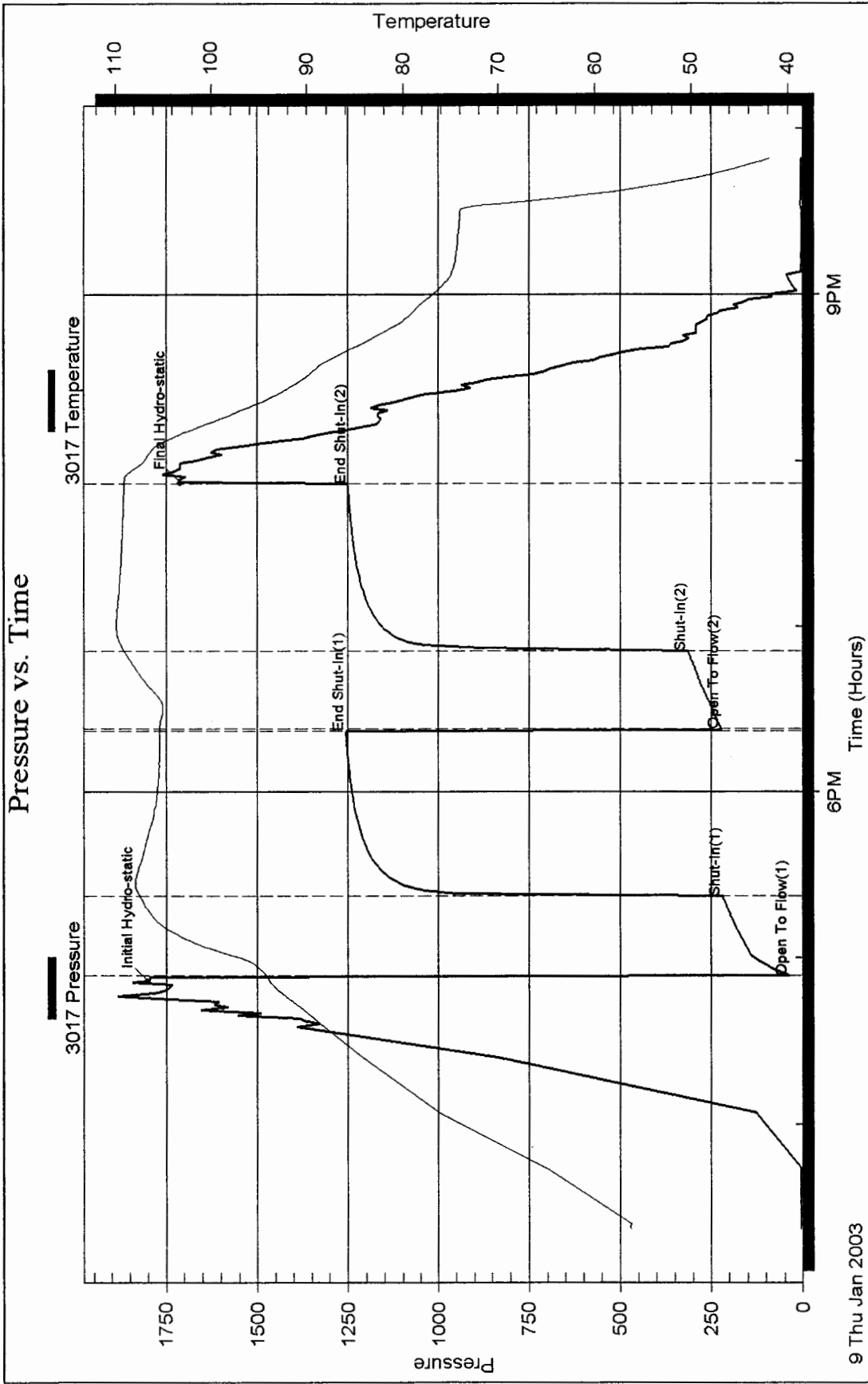
Inside

Clute Oil Corp

32--22s--17w

DST Test Number: 2

Pressure vs. Time

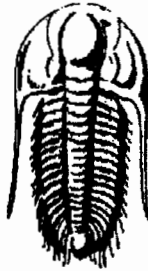


9 Thu Jan 2003

6PM

Time (Hours)

9PM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Clute Oil Corp**

4300 S. Dahlia St.
Englewood, Co. 80110-6101

ATTN: Peter Clute

32-22s-17w

Dave Welch # 1

Start Date: 2003.01.10 @ 22:14:23

End Date: 2003.01.11 @ 07:06:23

Job Ticket #: 16774 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Clute Oil Corp

Dave Welch # 1

32-22s-17w

DST # 3

Miss.

2003.01.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

Dave Welch # 1
32-22s-17w
Job Ticket: 16774 **DST#: 3**
Test Start: 2003.01.10 @ 22:14:23

Tool Information

Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 bbl	Tool Weight: 3200.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4131.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.02 ft			
Tool Length:	67.02 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			4112.00	
S.I. Tool	5.00			4117.00	
HMV	5.00			4122.00	
Packer	4.00			4126.00	20.00 Bottom Of Top Packer
Packer	5.00			4131.00	
Stubb	1.00			4132.00	
Perforations	1.00			4133.00	
C.O. Sub	1.00			4134.00	
Recorder	0.01	3017	Inside	4134.01	
Blank Spacing	30.00			4164.01	
C.O. Sub	1.00			4165.01	
Perforations	10.00			4175.01	
Recorder	0.01	13308	Outside	4175.02	
Bullnose	3.00			4178.02	47.02 Bottom Packers & Anchor

Total Tool Length: 67.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Clute Oil Corp

Dave Welch # 1

4300 S.Dahlia St.
Englewood, Co.80110-6101

32-22s-17w

Job Ticket: 16774

DST#: 3

ATTN: Peter Clute

Test Start: 2003.01.10 @ 22:14:23

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:

58000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
305.00	Muddy Water	2.019
220.00	G-C-Mud 10%gas 90%mud	3.086
400.00	gas in pipe	5.611

Total Length: 925.00 ft Total Volume: 10.716 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

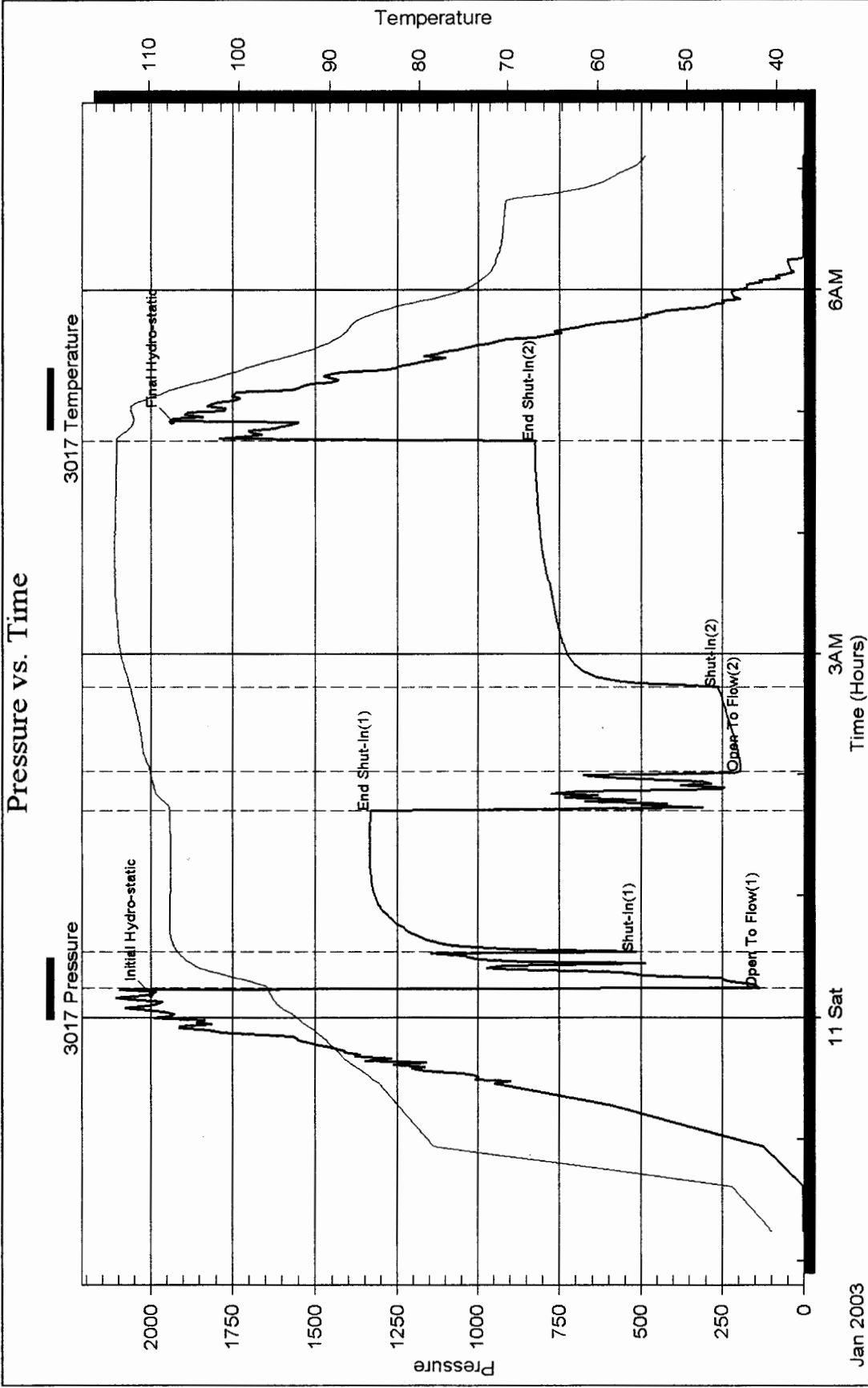
Serial #:

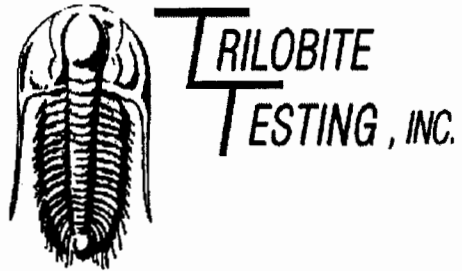
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Clute Oil Corp**
4300 S.Dahlia St.
Englewood, Co.80110-6101

ATTN: Peter Clute

32--22s--17w

Dave Welch # 1

Start Date: 2003.01.11 @ 16:16:20
End Date: 2003.01.12 @ 00:36:20
Job Ticket #: 16775 DST #: 4

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

Clute Oil Corp

Dave Welch # 1

32--22s--17w

DST # 4

Miss.

2003.01.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101

Dave Welch # 1
32-22s-17w
Job Ticket: 16775 **DST#: 4**
Test Start: 2003.01.11 @ 16:16:20

ATTN: Peter Clute

Tool Information

Drill Pipe:	Length: 3955.00 ft	Diameter: 3.80 inches	Volume: 55.48 bbl	Tool Weight: 3000.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	56.70 bbl	Tool Chased 10.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4203.00 ft			Final 52000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4184.00	
S.I. Tool	5.00			4189.00	
HMV	5.00			4194.00	
Packer	4.00			4198.00	20.00 Bottom Of Top Packer
Packer	5.00			4203.00	
Stubb	1.00			4204.00	
Perforations	1.00			4205.00	
Recorder	0.01	3017	Inside	4205.01	
Perforations	22.00			4227.01	
Recorder	0.01	13308	Outside	4227.02	
Bullnose	3.00			4230.02	27.02 Bottom Packers & Anchor

Total Tool Length: 47.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Clute Oil Corp
4300 S.Dahlia St.
Englewood, Co.80110-6101
ATTN: Peter Clute

Dave Welch # 1
32-22s-17w
Job Ticket: 16775 **DST#: 4**
Test Start: 2003.01.11 @ 16:16:20

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:	ppm
Viscosity: 33.00 sec/qt	Cushion Volume: bbl		
Water Loss: 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
280.00	SOGCM-12% G-8%O-80%M	1.668
1.00	free oil	0.014
860.00	gas in pipe	12.064

Total Length: 1141.00 ft Total Volume: 13.746 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 3017

Inside

Clute Oil Corp

32-22s--17w

DST Test Number: 4

Pressure vs. Time

