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CONFIDENTIAL

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FEB 17 2004
KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

5 Inverness Drive East ste.120
Edwards, Co. 80112

CONFIDENTIAL

ATTN: Per Burchardt

18-18s-24w Ness KS

Dinges # 1-18

Start Date: 2003.11.07 @ 10:12:45

End Date: 2003.11.07 @ 18:43:24

Job Ticket #: 18850 . DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

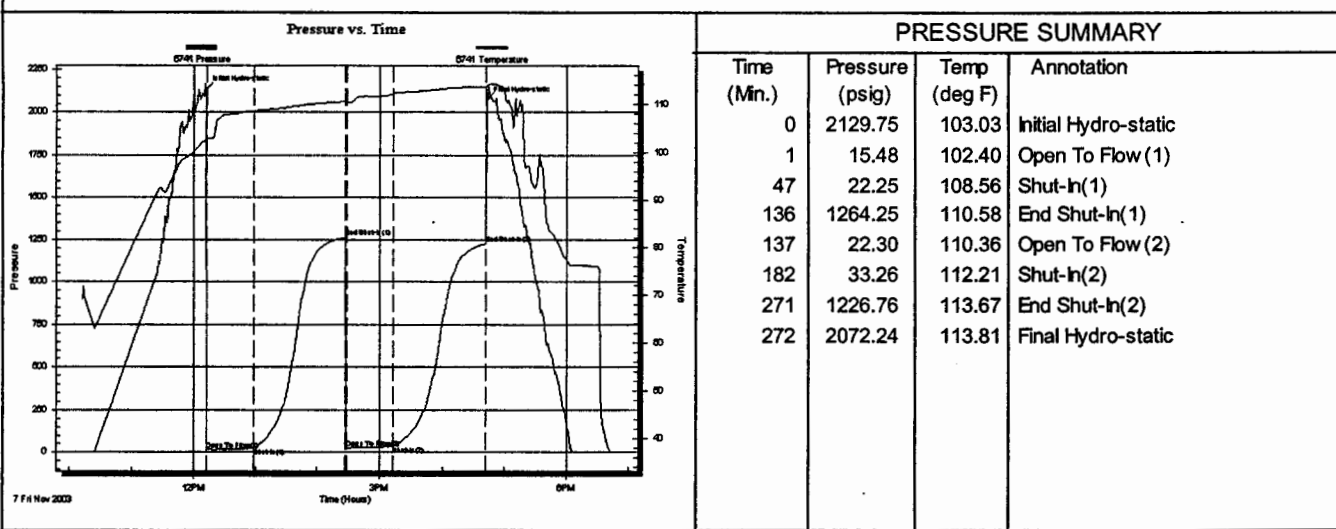
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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Norstar Petroleum Inc. 5 Inverness Drive East ste.120 Englewood, Co. 80112 ATTN: Per Burchardt	Dinges # 1-18 18-18s-24w Ness KS Job Ticket: 18850 DST#: 1 Test Start: 2003.11.07 @ 10:12:45

GENERAL INFORMATION:			
Formation:	Ft. Scott		
Deviated:	No Whipstock:	ft (KB)	
Time Tool Opened:	12:12:25		
Time Test Ended:	18:43:24		
Interval:	4215.00 ft (KB) To 4280.00 ft (KB) (TVD)		
Total Depth:	4280.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches Hole Condition: Fair		
			Test Type: Conventional Bottom Hole Tester: John Schmidt Unit No: 18 Reference Elevations: 2340.00 ft (KB) 2332.00 ft (CF) KB to GRV/CF: 8.00 ft

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Serial #: 6741 Inside			
Press@RunDepth:	33.26 psig @	4220.00 ft (KB)	
Start Date:	2003.11.07	End Date:	2003.11.07
Start Time:	10:12:46	End Time:	18:43:25
		Capacity:	7000.00 psig
		Last Calib.:	2003.11.07
		Time On Btm:	2003.11.07 @ 12:11:25
		Time Off Btm:	2003.11.07 @ 16:42:45
TEST COMMENT: F-Weak to Strong B.O.B. 35 min. FF-Strong B.O.B. 1 min.			



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
55.00	SOGCM-20%gas-5%oil-75%mud	0.77			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

Dinges # 1-18

5 Inverness Drive East ste.120
Englewood, Co. 80112

18-18s-24w Ness KS

Job Ticket: 18850

DST#: 1

ATTN: Per Burchardt

Test Start: 2003.11.07 @ 10:12:45

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 58.97 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4215.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

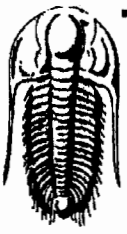
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4194.00	
Shut In Tool	5.00			4199.00	
Hydraulic tool	5.00			4204.00	
Safety Joint	2.00			4206.00	
Packer	4.00			4210.00	22.00 Bottom Of Top Packer
Packer	5.00		Fluid	4215.00	
Stubb	1.00			4216.00	
Perforations	3.00			4219.00	
Change Over Sub	1.00			4220.00	
Recorder	0.00	6741	Inside	4220.00	
Blank Spacing	31.00			4251.00	
Change Over Sub	1.00			4252.00	
Recorder	0.00	11084	Outside	4252.00	
Perforations	28.00			4280.00	
Bullnose	3.00			4283.00	68.00 Bottom Packers & Anchor

Total Tool Length: 90.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY																											
	Norstar Petroleum Inc. 5 Inverness Drive East ste.120 Englewood, Co. 80112 ATTN: Per Burchardt		Dinges # 1-18 18-18s-24w Ness KS Job Ticket: 18850 DST#: 1 Test Start: 2003.11.07 @ 10:12:45																											
	Mud and Cushion Information <table style="width: 100%;"> <tr> <td style="width: 40%;">Mud Type: Gel Chem</td> <td style="width: 20%;">Cushion Type:</td> <td style="width: 20%;">Oil API:</td> <td style="width: 20%;">deg API</td> </tr> <tr> <td>Mud Weight: 9.00 lb/gal</td> <td>Cushion Length:</td> <td>Water Salinity:</td> <td>ppm</td> </tr> <tr> <td>Viscosity: 54.00 sec/qt</td> <td>Cushion Volume:</td> <td></td> <td></td> </tr> <tr> <td>Water Loss: 8.78 in³</td> <td>Gas Cushion Type:</td> <td></td> <td></td> </tr> <tr> <td>Resistivity: ohm.m</td> <td>Gas Cushion Pressure:</td> <td></td> <td></td> </tr> <tr> <td>Salinity: ppm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Filter Cake: inches</td> <td></td> <td></td> <td></td> </tr> </table>			Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API	Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm	Viscosity: 54.00 sec/qt	Cushion Volume:			Water Loss: 8.78 in ³	Gas Cushion Type:			Resistivity: ohm.m	Gas Cushion Pressure:			Salinity: ppm				Filter Cake: inches		
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Recovery Information Recovery Table <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">55.00</td> <td>SOGCM-20%gas-5%oil-75%mud</td> <td style="text-align: center;">0.772</td> </tr> </tbody> </table> <table style="width: 100%;"> <tr> <td>Total Length: 55.00 ft</td> <td>Total Volume: 0.772 bbl</td> </tr> <tr> <td>Num Fluid Samples: 0</td> <td>Num Gas Bombs: 0 Serial #:</td> </tr> <tr> <td>Laboratory Name:</td> <td>Laboratory Location:</td> </tr> <tr> <td colspan="2">Recovery Comments:</td> </tr> </table> RECEIVED FEB 17 2004 KCC WICHITA				Length ft	Description	Volume bbl	55.00	SOGCM-20%gas-5%oil-75%mud	0.772	Total Length: 55.00 ft	Total Volume: 0.772 bbl	Num Fluid Samples: 0	Num Gas Bombs: 0 Serial #:	Laboratory Name:	Laboratory Location:	Recovery Comments:														
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Num Fluid Samples: 0	Num Gas Bombs: 0 Serial #:																													
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Serial #: 6741

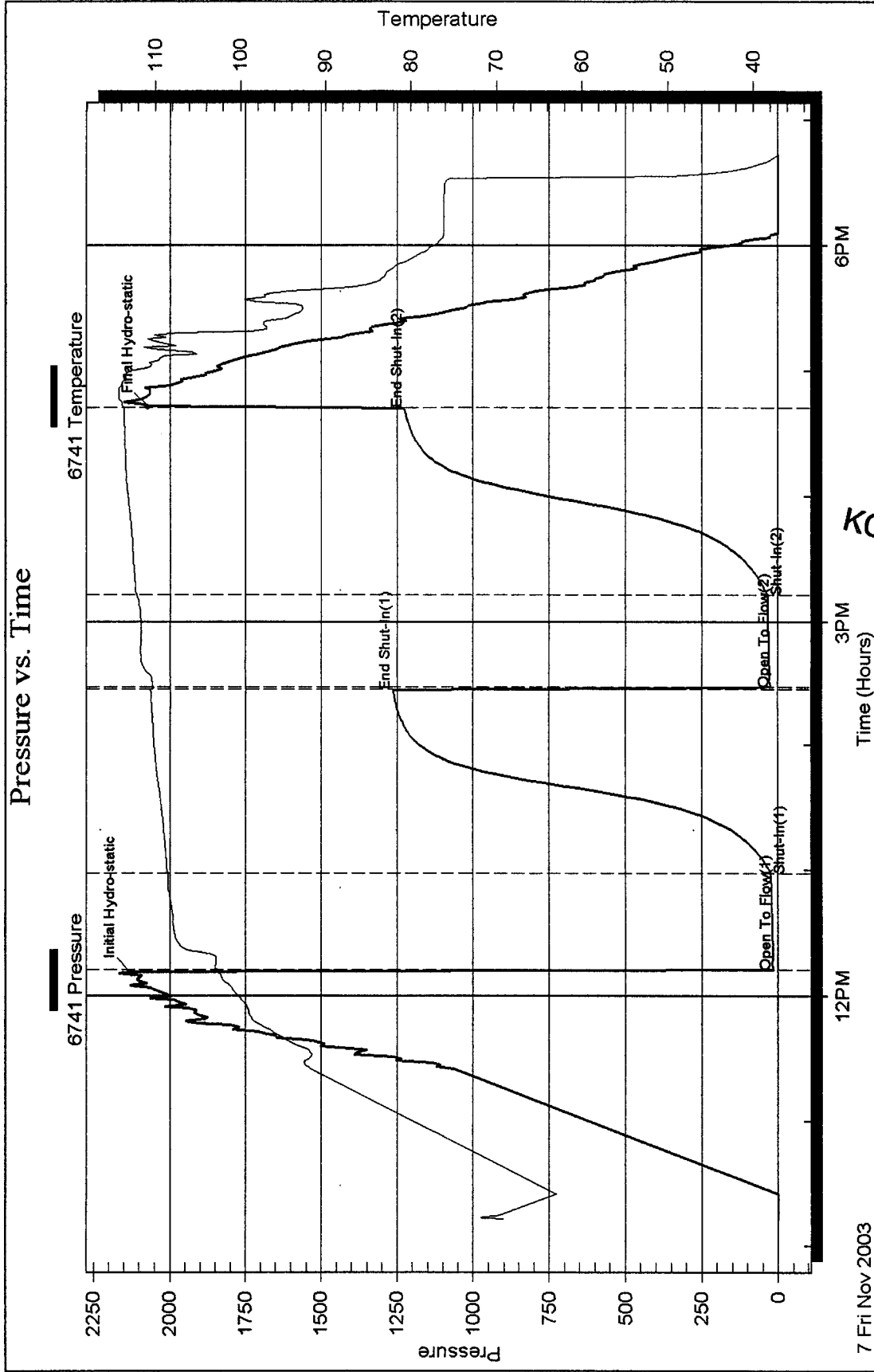
Inside

Norstar Petroleum Inc.

18-18s-24w Ness KS

DST Test Number: 1

Pressure vs. Time



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**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

5 Inverness Drive East ste.120
Englewood, Co. 80112

ATTN: Per Burchardt

18-18s-24w Ness KS

Dinges # 1-18

Start Date: 2003.11.08 @ 18:40:26

End Date: 2003.11.09 @ 03:07:32

Job Ticket #: 18476

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

110757



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Norstar Petroleum Inc.

5 Inverness Drive East ste.120
Englewood, Co. 80112

ATTN: Per Burchardt

Dinges # 1-18

18-18s-24w Ness KS

Job Ticket: 18476

DST#: 2

Test Start: 2003.11.08 @ 18:40:26

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:02

Time Test Ended: 03:07:32

Interval: **4276.00 ft (KB) To 4319.00 ft (KB) (TVD)**

Total Depth: 4319.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

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Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Reference Elevations: 2340.00 ft (KB)

2332.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 27.37 psig @ 4280.00 ft (KB)

Start Date: 2003.11.08

End Date:

2003.11.09

Start Time: 18:40:27

End Time:

03:07:32

Capacity: 7000.00 psig

Last Calib.: 2003.11.09

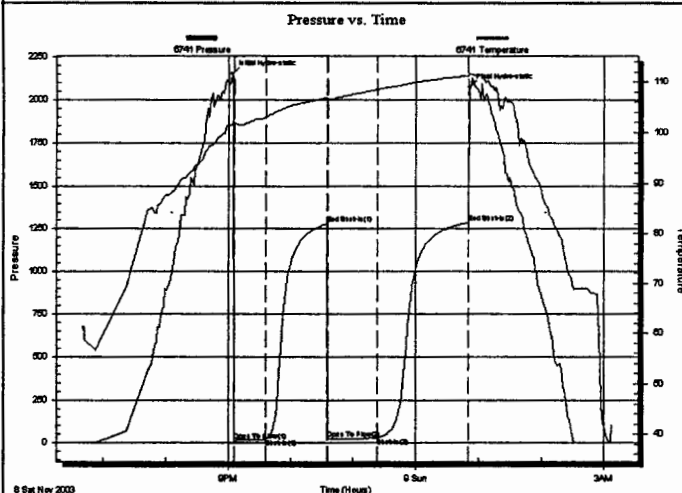
Time On Btm: 2003.11.08 @ 21:03:02

Time Off Btm: 2003.11.09 @ 00:50:32

TEST COMMENT: IF-Weak built to 2" in
FF-Weak built to 1" in

ISI-Dead

FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.40	101.45	Initial Hydro-static
2	14.99	101.25	Open To Flow (1)
33	21.29	103.04	Shut-In(1)
92	1279.73	106.86	End Shut-In(1)
93	22.46	106.58	Open To Flow (2)
141	27.37	108.56	Shut-In(2)
227	1286.25	111.29	End Shut-In(2)
228	2073.95	111.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 5%oil 95% mud	0.35
5.00	free oil	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

5 Inverness Drive East ste.120
Englewood, Co. 80112

ATTN: Per Burchardt

Dinges # 1-18

18-18s-24w Ness KS

Job Ticket: 18476

DST#: 2

Test Start: 2003.11.08 @ 18:40:26

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 59.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4276.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4255.00	
Shut In Tool	5.00			4260.00	
Hydraulic tool	5.00			4265.00	
Safety Joint	2.00			4267.00	
Packer	4.00			4271.00	22.00 Bottom Of Top Packer
Packer	5.00		Fluid	4276.00	
Stubb	1.00			4277.00	
Perforations	2.00			4279.00	
Change Over Sub	1.00			4280.00	
Recorder	0.00	6741	Inside	4280.00	
Blank Spacing	31.00			4311.00	
Change Over Sub	1.00			4312.00	
Perforations	4.00			4316.00	
Recorder	0.00	13308	Outside	4316.00	
Bullhose	3.00			4319.00	43.00 Bottom Packers & Anchor

Total Tool Length: 65.00


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

Dinges # 1-18

5 Inverness Drive East ste.120
Englewood, Co. 80112

18-18s-24w Ness KS

Job Ticket: 18476

DST#: 2

ATTN: Per Burchardt

Test Start: 2003.11.08 @ 18:40:26

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 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
25.00	OCM 5%oil 95% mud	0.351
5.00	free oil	0.070

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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DST Test Number: 2

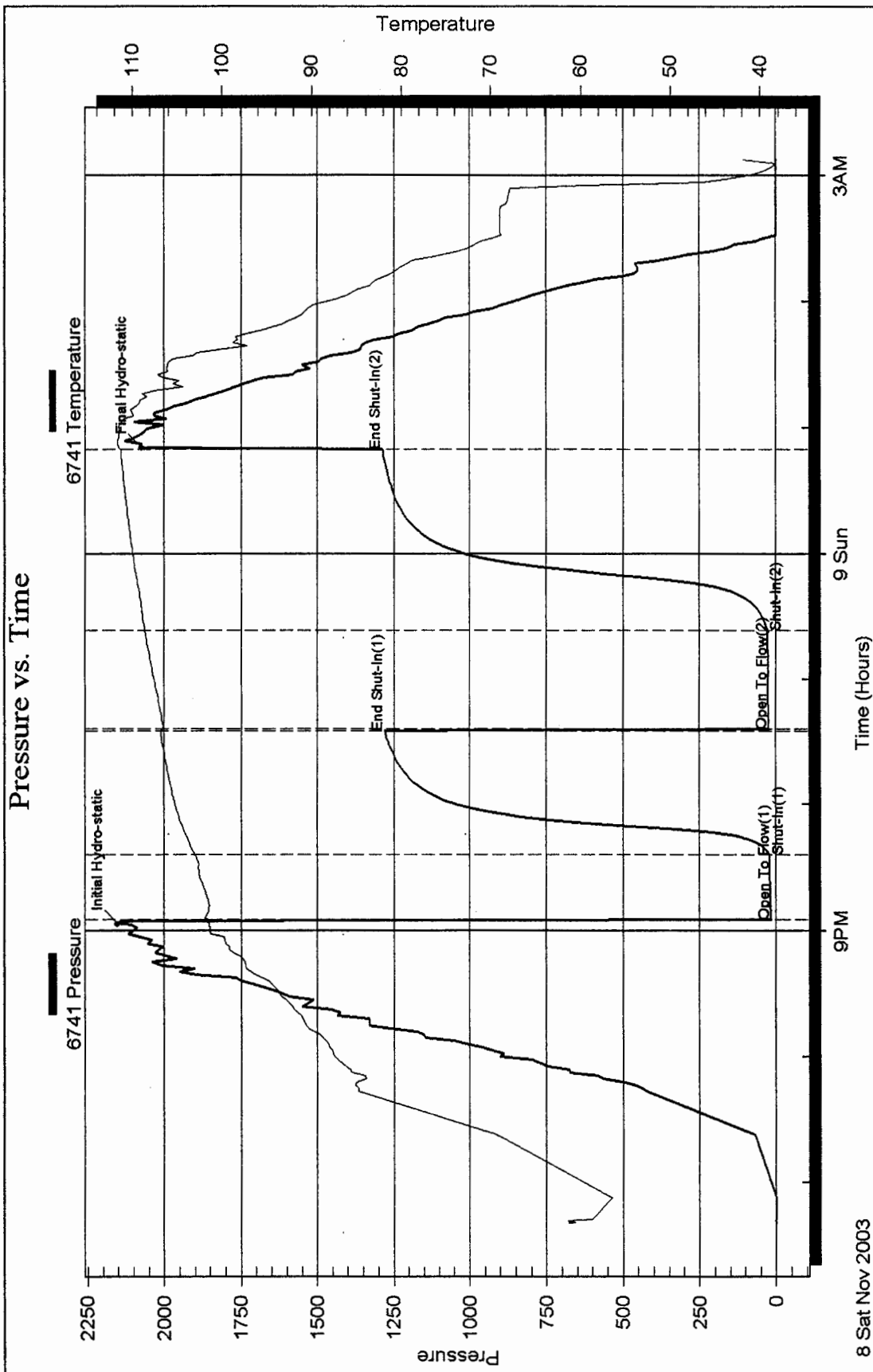
18-18s-24w Ness KS

Norstar Petroleum Inc.

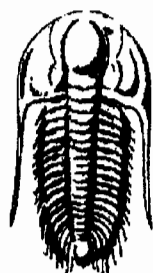
Inside

Serial #: 6741

Pressure vs. Time



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**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

5 Inverness Drive East ste.120
Englewood,Co. 80112

ATTN: Per Burchardt

18-18s-24w Ness KS

Dinges # 1-18

Start Date: 2003.11.10 @ 04:47:16

End Date: 2003.11.10 @ 14:00:22

Job Ticket #: 18477 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

Norstar Petroleum Inc.

5 Inverness Drive East ste.120
Englewood, Co. 80112

ATTN: Per Burchardt

Dinges # 1-18

18-18s-24w Ness KS

Job Ticket: 18477

DST#: 3

Test Start: 2003.11.10 @ 04:47:16

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:23

Time Test Ended: 14:00:22

Interval: **4291.00 ft (KB) To 4352.00 ft (KB) (TVD)**

Total Depth: 4459.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 18

Reference Elevations: 2340.00 ft (KB)

2332.00 ft (CF)

KB to GR/CF: 8.00 ft

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Serial #: 6741

Inside

Press@RunDepth: 494.07 psig @ 4295.00 ft (KB)

Start Date: 2003.11.10

End Date:

2003.11.10

Start Time: 03:47:17

End Time:

13:00:22

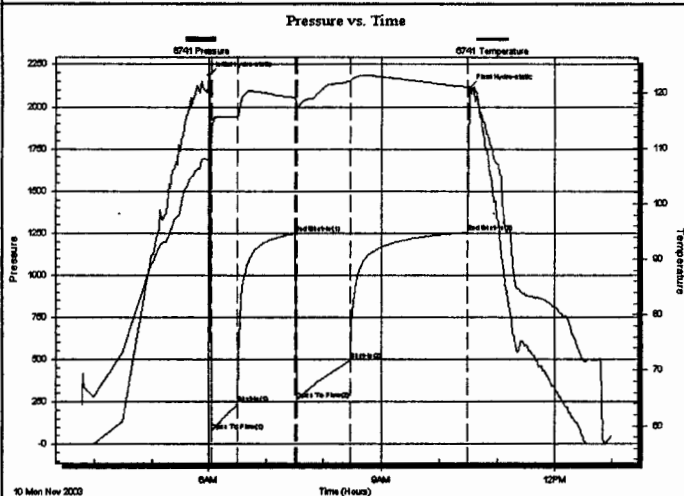
Capacity: 7000.00 psig

Last Calib.: 2003.11.10

Time On Btm: 2003.11.10 @ 05:59:23

Time Off Btm: 2003.11.10 @ 10:30:53

TEST COMMENT: IF-Strong B.O.B. 3 min. IS-Good blow back built 4" in.
FF-Strong B.O.B. 2 min. FSI-Very weak blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.02	108.26	Initial Hydro-static
3	74.67	114.46	Open To Flow (1)
31	237.62	115.58	Shut-In(1)
92	1248.39	119.08	End Shut-In(1)
94	263.93	117.18	Open To Flow (2)
149	494.07	122.05	Shut-In(2)
270	1254.31	120.95	End Shut-In(2)
272	2113.06	120.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	GOCM-20%gas-10%oil-70%mud	2.81
1100.00	Gassy oil 10% gas-90% oil	15.43
0.00	250 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

5 Inverness Drive East ste.120
Englewood, Co. 80112

ATTN: Per Burchardt

Dinges # 1-18

18-18s-24w Ness KS

Job Ticket: 18477

DST#: 3

Test Start: 2003.11.10 @ 04:47:16

Tool Information

Drill Pipe:	Length: 4299.00 ft	Diameter: 3.80 inches	Volume: 60.30 bbl	Tool Weight: 4500.00 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: 76000.00 lb
			Total Volume: 60.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4291.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	4352.00 ft			
Interval between Packers:	61.00 ft			
Tool Length:	189.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4270.00		
Shut In Tool	5.00			4275.00		
Hydraulic tool	5.00			4280.00		
Safety Joint	2.00			4282.00		
Packer	4.00			4286.00	22.00	Bottom Of Top Packer
Packer	5.00		Fluid	4291.00		
Stubb	1.00			4292.00		
Perforations	2.00			4294.00		
Change Over Sub	1.00			4295.00		
Recorder	0.00	6741	Inside	4295.00		
Blank Spacing	31.00			4326.00		
Change Over Sub	1.00			4327.00		
Perforations	24.00			4351.00		
Recorder	0.00	13308	Outside	4351.00		
Blank Off Sub	1.00			4352.00	61.00	Tool Interval
Packer	0.00			4352.00		
Perforations	5.00			4357.00		
Change Over Sub	1.00			4358.00		
Recorder	0.00	11084	Below	4358.00		
Blank Spacing	93.00			4451.00		
Change Over Sub	1.00			4452.00		
Perforations	3.00			4455.00		
Bullnose	3.00			4458.00	106.00	Bottom Packers & Anchor
Total Tool Length:	189.00					



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Dinges # 1-18

5 Inverness Drive East ste.120
Englewood, Co. 80112

18-18s-24w Ness KS

Job Ticket: 18477

DST#: 3

ATTN: Per Burchardt

Test Start: 2003.11.10 @ 04:47:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 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
200.00	GOCM-20%gas-10%oil-70%mud	2.805
1100.00	Gassy oil 10% gas-90% oil	15.430
0.00	250 gas in pipe	0.000

Total Length: 1300.00 ft

Total Volume: 18.235 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Serial #: 6741

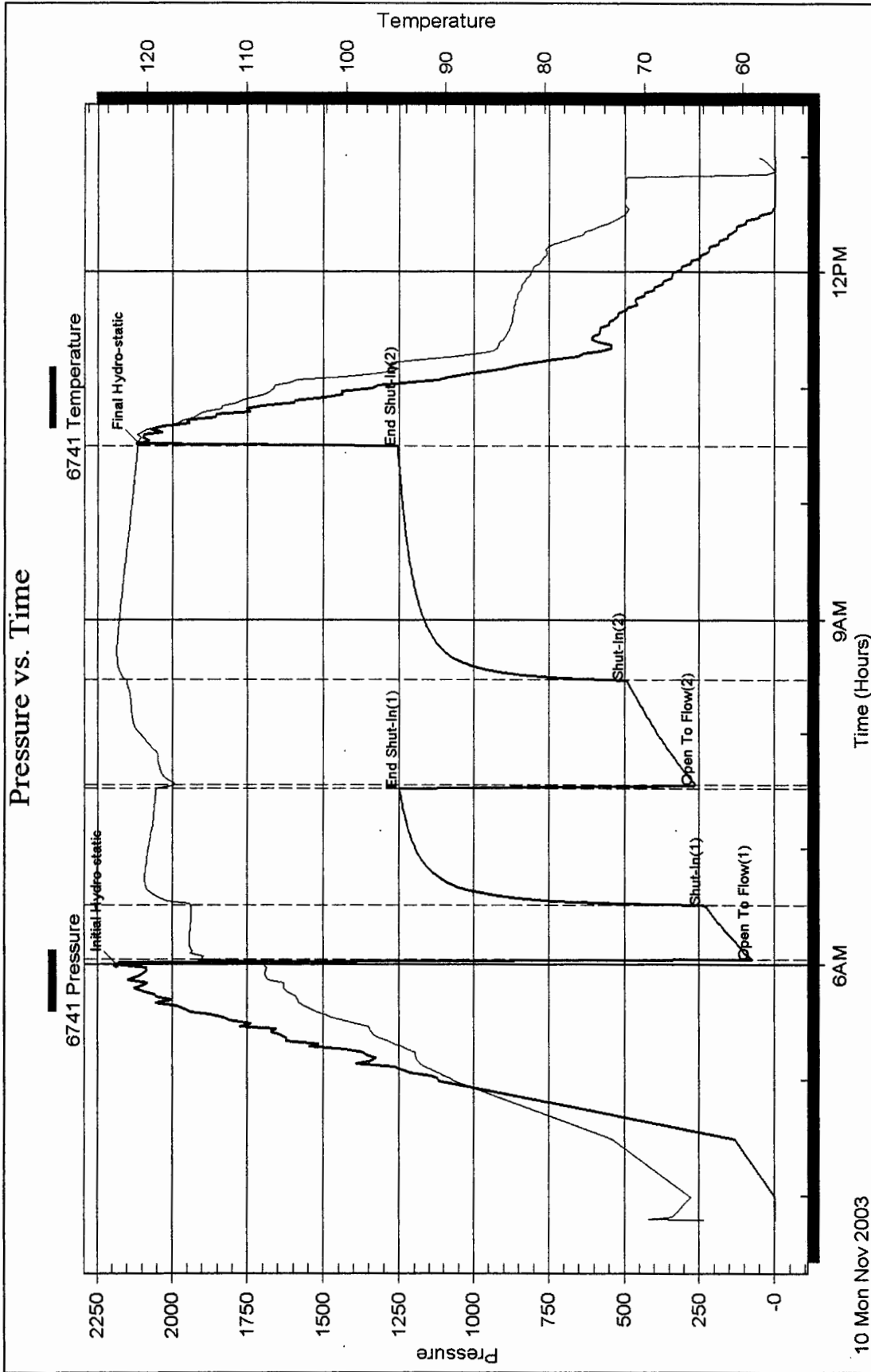
Inside

Norstar Petroleum Inc.

18-18s-24w Ness KS

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 18477

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