

ORIGINAL

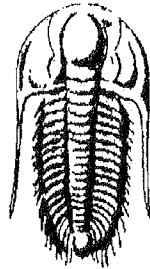
15-135-24228

34-20s-23w

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JAN 20 2004

KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

5 Inverness Drive East Ste 120
Englewood Colo 80112

ATTN: John Rose

ORIGINAL

34-20-23-Ness Ks

Byrom #1-34

Start Date: 2003.07.23 @ 13:30:50

End Date: 2003.07.23 @ 18:54:50

Job Ticket #: 17267 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Norstar Petroleum Inc

Byrom #1-34

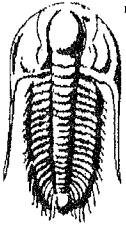
34-20-23-Ness Ks

DST # 1

Fort Scott

2003.07.23

ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 5 Inverness Drive East Ste 120
 Englewood Colo 80112
 ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
 Job Ticket: 17267 DST#: 1
 Test Start: 2003.07.23 @ 13:30:50

GENERAL INFORMATION:

Formation: **Fort Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:18:20
 Time Test Ended: 18:54:50

Interval: **4224.00 ft (KB) To 4288.00 ft (KB) (TVD)**
 Total Depth: **4288.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good

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Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21
 Reference Elevations: 2224.00 ft (KB)
 2216.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

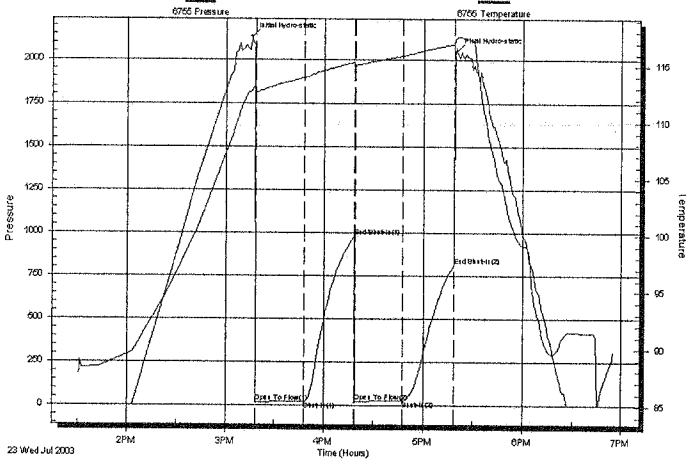
Press@RunDepth: 29.34 psig @ 4231.00 ft (KB)
 Start Date: 2003.07.23 End Date: 2003.07.23
 Start Time: 13:30:51 End Time: 18:54:50

Capacity: 7000.00 psig
 Last Calib.: 2003.07.23
 Time On Btm: 2003.07.23 @ 15:15:50
 Time Off Btm: 2003.07.23 @ 17:20:20

TEST COMMENT: IF-Weak-died in 25 min
 FF-No blow
 Times-30-30-30-30

ORIGINAL

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.16	112.78	Initial Hydro-static
3	18.83	112.64	Open To Flow (1)
32	24.11	113.95	Shut-In(1)
63	977.30	115.30	End Shut-In(1)
63	25.75	114.76	Open To Flow (2)
92	29.34	115.89	Shut-In(2)
123	808.64	116.92	End Shut-In(2)
125	2052.55	117.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
10.00	DM	0.05

Gas Rates

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

ORIGINAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112
ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
Job Ticket: 17267 **DST#: 1**
Test Start: 2003.07.23 @ 13:30:50

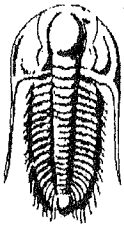
Tool Information

Drill Pipe:	Length: 4191.00 ft	Diameter: 3.80 inches	Volume: 58.79 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 58.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4224.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	88.00 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
C.O. Sub	1.00			4201.00	
S.I. Tool	5.00			4206.00	
HMV	5.00			4211.00	
Safety Joint	3.00			4214.00	
Packer	5.00			4219.00	24.00 Bottom Of Top Packer
Packer	5.00			4224.00	
Stubb	1.00			4225.00	
Perforations	5.00			4230.00	
C.O. Sub	1.00			4231.00	
Recorder	0.00	6755	Inside	4231.00	
Blank Spacing	30.00			4261.00	
C.O. Sub	1.00			4262.00	
Recorder	0.00	13254	Outside	4262.00	
Perforations	23.00			4285.00	
Bullnose	3.00			4288.00	64.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112
ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
Job Ticket: 17267 **DST#: 1**
Test Start: 2003.07.23 @ 13:30:50

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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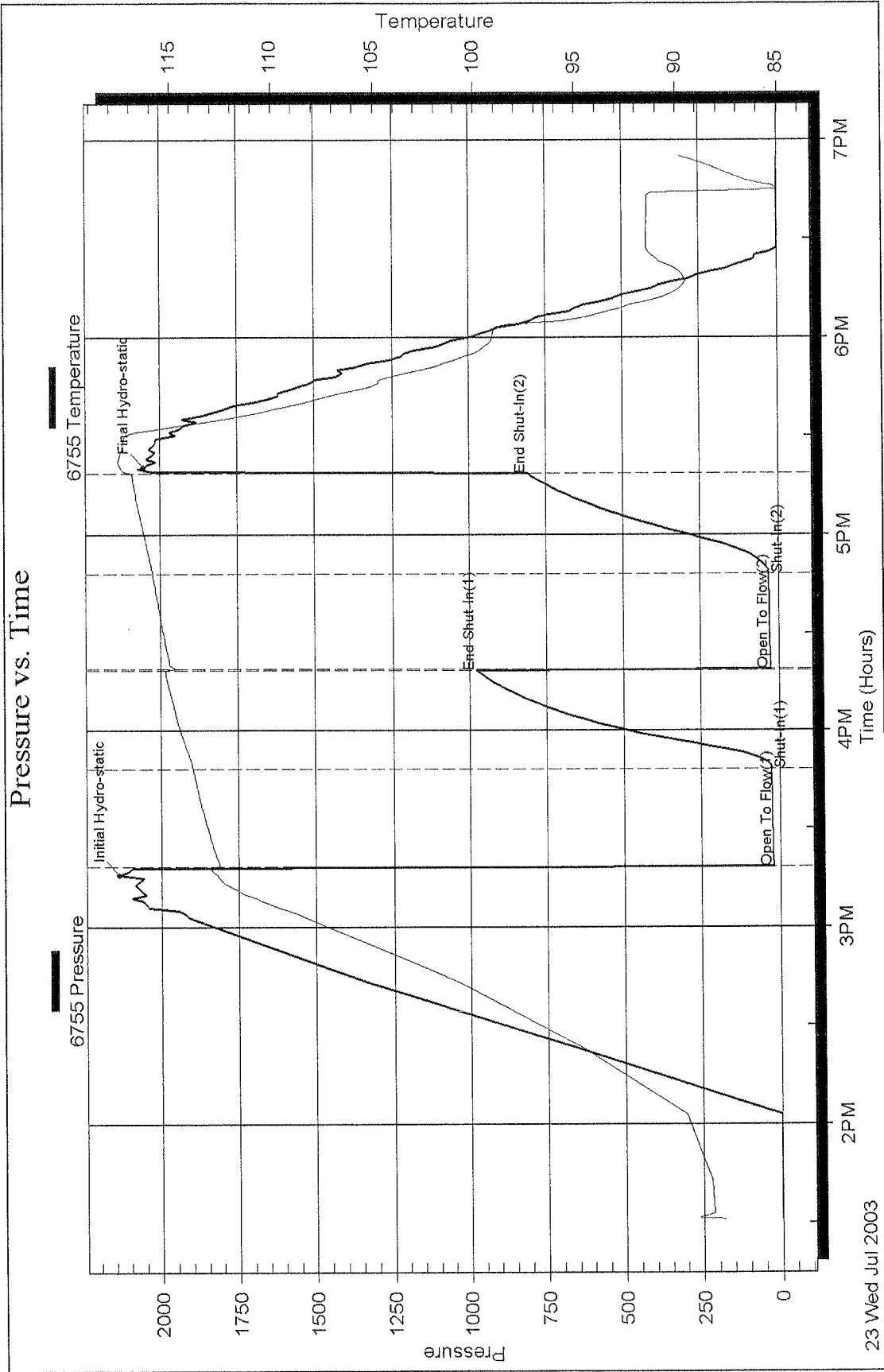
Serial #: 6755

Inside

Norstar Petroleum Inc

34-20-23-Ness Ks

DST Test Number: 1



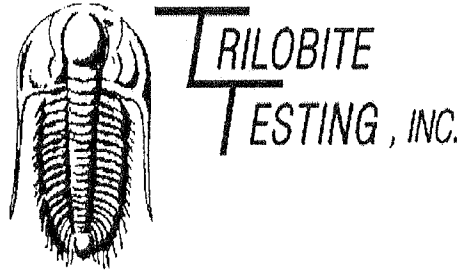
23 Wed Jul 2003

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 JAN 20 2004
 KCC WICHITA

Ref. No: 17267

Trilobite Testing, Inc

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JAN 20 2004
KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

5 Inverness Drive East Ste 120
Englewood Colo 80112

ATTN: John Rose

34-20-23-Ness Ks

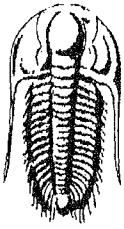
Byrom #1-34

Start Date: 2003.07.24 @ 08:40:16

End Date: 2003.07.24 @ 17:39:46

Job Ticket #: 17268 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

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112
ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
Job Ticket: 17268 **DST#: 2**
Test Start: 2003.07.24 @ 08:40:16

GENERAL INFORMATION:

Formation: **Cherokee Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:28:16
Time Test Ended: 17:39:46

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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Reference Elevations: 2224.00 ft (KB)
2216.00 ft (CF)
KB to GR/CF: 8.00 ft

Interval: **4300.00 ft (KB) To 4377.00 ft (KB) (TVD)**
Total Depth: 4377.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

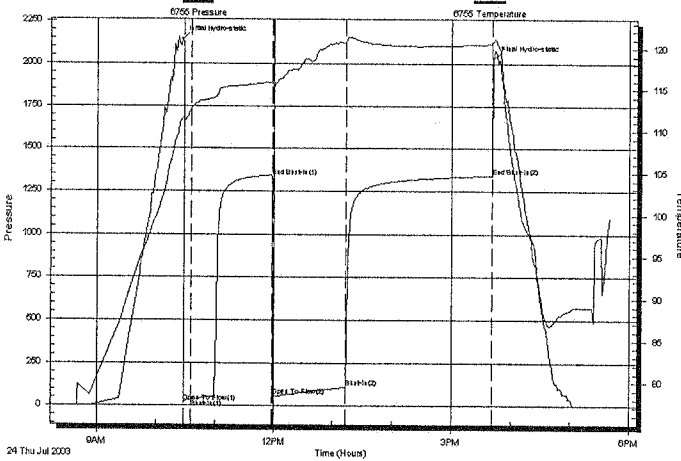
Serial #: 6755

Inside

Press@RunDepth: 108.51 psig @ 4307.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2003.07.24 End Date: 2003.07.24 Last Calib.: 2003.07.24
Start Time: 08:40:17 End Time: 17:39:46 Time On Btm: 2003.07.24 @ 10:26:16
Time Off Btm: 2003.07.24 @ 15:42:46

TEST COMMENT: IF-Weak building to 6" fair blow
FF-Strong BOB in 50 min
Times-30-60-75-150

Pressure vs. Time



PRESSURE SUMMARY

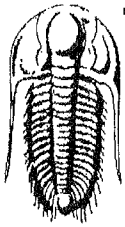
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.20	111.51	Initial Hydro-static
2	22.02	111.19	Open To Flow (1)
10	34.86	112.74	Shut-In(1)
93	1334.19	115.95	End Shut-In(1)
93	56.52	115.53	Open To Flow (2)
167	108.51	120.70	Shut-In(2)
315	1339.81	120.53	End Shut-In(2)
317	2029.51	120.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Silty O C M 5%o 95% m	1.13
125.00	C Gsy O 10%g 90%o	1.75
0.00	180 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112
ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
Job Ticket: 17268 **DST#: 2**
Test Start: 2003.07.24 @ 08:40:16

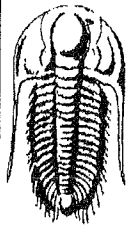
Tool Information

Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 2800.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 59.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4300.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	101.00 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
C.O. Sub	1.00			4277.00	
S.I. Tool	5.00			4282.00	
HMV	5.00			4287.00	
Safety Joint	3.00			4290.00	
Packer	5.00			4295.00	24.00 Bottom Of Top Packer
Packer	5.00			4300.00	
Stubb	1.00			4301.00	
Perforations	5.00			4306.00	
C.O. Sub	1.00			4307.00	
Recorder	0.00	6755	Inside	4307.00	
Blank Spacing	31.00			4338.00	
C.O. Sub	1.00			4339.00	
Recorder	0.00	13254	Outside	4339.00	
Perforations	35.00			4374.00	
Bullnose	3.00			4377.00	77.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

Byrom #1-34

5 Inverness Drive East Ste 120
Englewood Colo 80112

34-20-23-Ness Ks

Job Ticket: 17268

DST#: 2

ATTN: John Rose

Test Start: 2003.07.24 @ 08:40:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
100.00	Silty O C M 5%o 95%m	1.129
125.00	C Gsy O 10%g 90%o	1.753
0.00	180 GIP	0.000

Total Length: 225.00 ft

Total Volume: 2.882 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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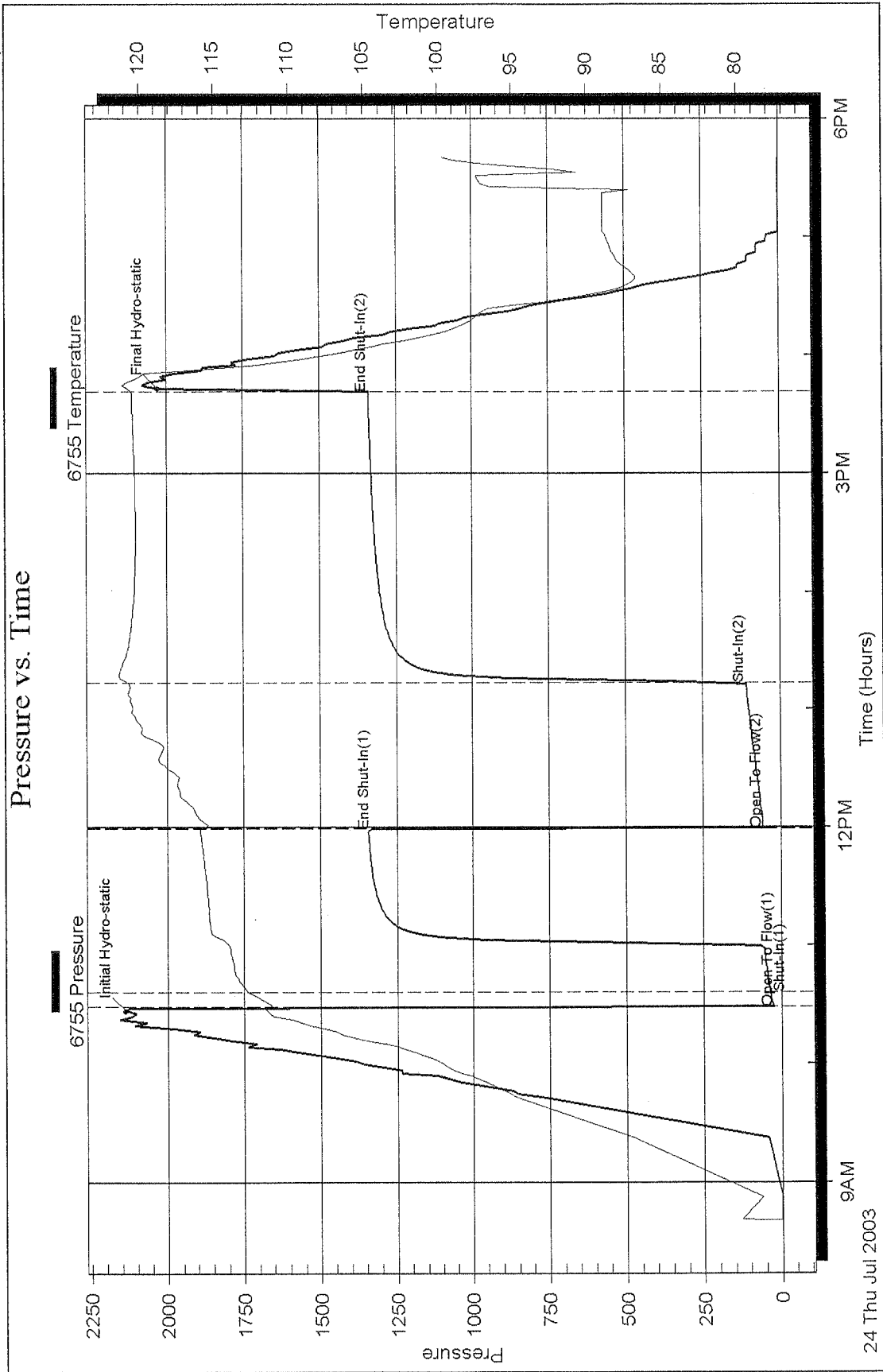
Serial #: 6755

Inside

Norstar Petroleum Inc

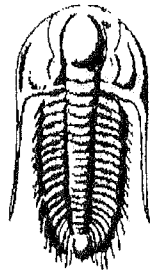
34-20-23-Ness Ks

DST Test Number: 2



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JAN 20 2004
KCC WICHITA

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KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

5 Inverness Drive East Ste 120
Englewood Colo 80112

ATTN: John Rose

34-20-23-Ness Ks

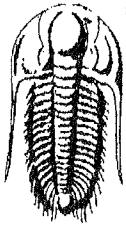
Byrom #1-34

Start Date: 2003.07.25 @ 01:13:12

End Date: 2003.07.25 @ 10:08:12

Job Ticket #: 17269 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 Colo 80112
 ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
 Job Ticket: 17269 **DST#: 3**
 Test Start: 2003.07.25 @ 01:13:12

GENERAL INFORMATION:

Formation: **Cherokee Sd**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:26:12
 Time Test Ended: 10:08:12

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Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21
 Reference Elevations: 2224.00 ft (KB)
 2216.00 ft (CF)
 KB to GR/CF: 8.00 ft

Interval: **4300.00 ft (KB) To 4382.00 ft (KB) (TVD)**
 Total Depth: 4382.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

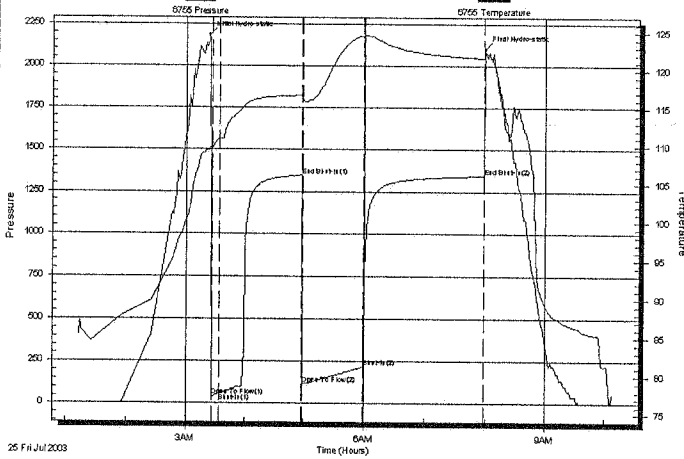
Serial #: 6755

Inside

Press@RunDepth: 217.59 psig @ 4307.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2003.07.25 End Date: 2003.07.25 Last Calib.: 2003.07.25
 Start Time: 01:13:13 End Time: 10:08:12 Time On Btm: 2003.07.25 @ 03:23:42
 Time Off Btm: 2003.07.25 @ 07:59:42

TEST COMMENT: Slid tool 5' to bottom
 IF-Weak building to fair blow BOB in 20 min
 FF-Weak building to fair blow BOB in 55 min
 Times-30-60-60-120

Pressure vs. Time



PRESSURE SUMMARY

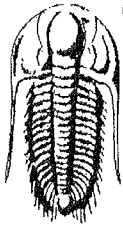
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.65	109.78	Initial Hydro-static
3	40.18	109.76	Open To Flow (1)
11	58.20	111.07	Shut-In(1)
95	1346.98	116.71	End Shut-In(1)
96	114.45	116.31	Open To Flow (2)
156	217.59	124.36	Shut-In(2)
275	1343.79	121.60	End Shut-In(2)
276	2101.09	122.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Wtr Rw .19 @ 80	1.47
62.00	MCW 20% m 80% w	0.87
206.00	HOcm 10% O 90% m	2.89
65.00	C Gsy O 5% g 95% o	0.91
0.00	124 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112

Byrom #1-34

34-20-23-Ness Ks

Job Ticket: 17269

DST#: 3

ATTN: John Rose

Test Start: 2003.07.25 @ 01:13:12

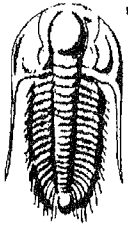
Tool Information

Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 2800.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 59.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4300.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	106.00 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
C.O. Sub	1.00			4277.00	
S.I. Tool	5.00			4282.00	
HMV	5.00			4287.00	
Safety Joint	3.00			4290.00	
Packer	5.00			4295.00	24.00 Bottom Of Top Packer
Packer	5.00			4300.00	
Stubb	1.00			4301.00	
Perforations	5.00			4306.00	
C.O. Sub	1.00			4307.00	
Recorder	0.00	6755	Inside	4307.00	
Blank Spacing	61.00			4368.00	
C.O. Sub	1.00			4369.00	
Recorder	0.00	13254	Outside	4369.00	
Perforations	10.00			4379.00	
Bullnose	3.00			4382.00	82.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc
5 Inverness Drive East Ste 120
Englewood Colo 80112
ATTN: John Rose

Byrom #1-34
34-20-23-Ness Ks
Job Ticket: 17269 **DST#: 3**
Test Start: 2003.07.25 @ 01:13:12

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 35000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6400.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Wtr Rw .19 @ 80	1.466
62.00	MCW 20%m 80%w	0.870
206.00	HOCM 10%O 90%m	2.890
65.00	C Gsy O 5%g 95%o	0.912
0.00	124 GIP	0.000

Total Length: 457.00 ft Total Volume: 6.138 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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KCC WICHITA

Serial #: 6755

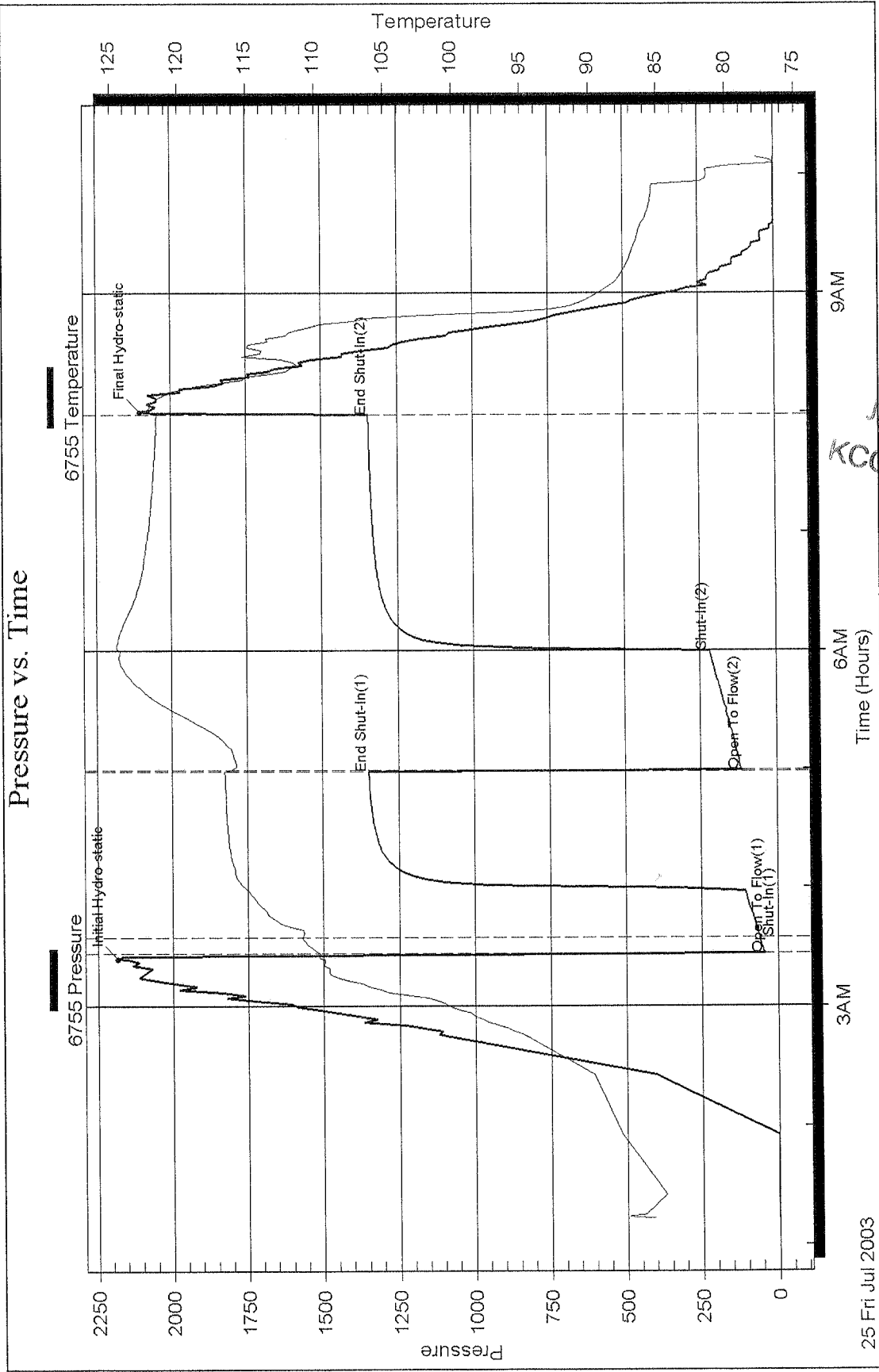
Inside

Norstar Petroleum Inc

34-20-23-Ness Ks

DST Test Number: 3

Pressure vs. Time



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 KCC WICHITA