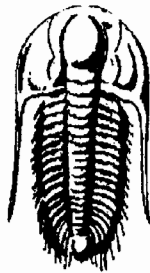


27-15s-12w

15-167-23254



TRILOBITE
TESTING, INC.
KCC

AUG 3 2004

DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

5 Inverness Drive East
Suite 120
Englewood Co 80112

ATTN: Per Burchardt

27-15s-12w Russell

Janne #1-27

Start Date: 2004.07.06 @ 17:14:21

End Date: 2004.07.06 @ 23:50:50

Job Ticket #: 20032 DST #: 1

KCC

AUG 3 2004

CONFIDENTIAL

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
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

Janne #1-27

27-15s-12w Russell

Job Ticket: 20032

DST#: 1

Test Start: 2004.07.06 @ 17:14:21

GENERAL INFORMATION:

Formation: **Top Platts mouth**

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

Time Tool Opened: 18:52:20

Time Test Ended: 23:50:50

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **2847.00 ft (KB) To 2867.00 ft (KB) (TVD)**

Reference Elevations: **1861.00 ft (KB)**

Total Depth: **2867.00 ft (KB) (TVD)**

1853.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **26.97 psig @ 2848.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.07.06**

End Date:

2004.07.07

Last Calib.: **2004.07.06**

Start Time: **17:14:21**

End Time:

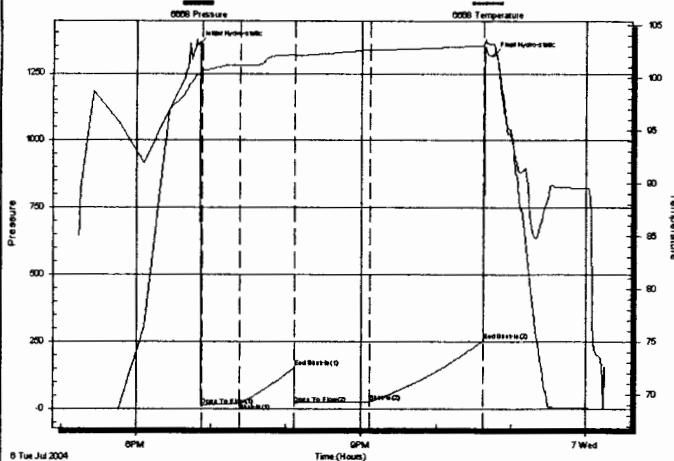
00:14:50

Time On Btm: **2004.07.06 @ 18:49:20**

Time Off Btm: **2004.07.06 @ 22:44:20**

TEST COMMENT: **IFP-w k to fr 1/2" to 3 1/2" bl**
FFP-w k bl thru-out 1/2" to 2 1/2" bl
Times 30-45-60-90
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1356.13	100.34	Initial Hydro-static
3	11.97	100.61	Open To Flow (1)
34	21.40	101.18	Shut-In (1)
77	152.51	102.20	End Shut-In (1)
78	17.27	102.20	Open To Flow (2)
138	26.97	102.69	Shut-In (2)
228	252.37	103.09	End Shut-In (2)
235	1314.86	103.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	OCM 4% oil 96% mud	0.22
0.00	90' GIP	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

Janne #1-27

5 Inverness Drive East
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

27-15s-12w Russell

Job Ticket: 20032

DST#: 1

Test Start: 2004.07.06 @ 17:14:21

Tool Information

Drill Pipe:	Length: 2800.00 ft	Diameter: 3.80 inches	Volume: 39.28 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 39.43 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2847.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			2827.00	
Shut In Tool	5.00			2832.00	
Hydraulic tool	5.00			2837.00	
Packer	5.00			2842.00	21.00 Bottom Of Top Packer
Packer	5.00			2847.00	
Stubb	1.00			2848.00	
Recorder	0.01	6668	Inside	2848.01	
Perforations	16.00			2864.01	
Recorder	0.01	13534	Outside	2864.02	
Bullnose	3.00			2867.02	20.02 Bottom Packers & Anchor
Total Tool Length:	41.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

Janne #1-27

5 Inverness Drive East
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

27-15s-12w Russell

Job Ticket: 20032

DST#: 1

Test Start: 2004.07.06 @ 17:14:21

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 12.15 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	OCM 4%oil 96%mud	0.218
0.00	90' GIP	0.000

Total Length: 35.00 ft

Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

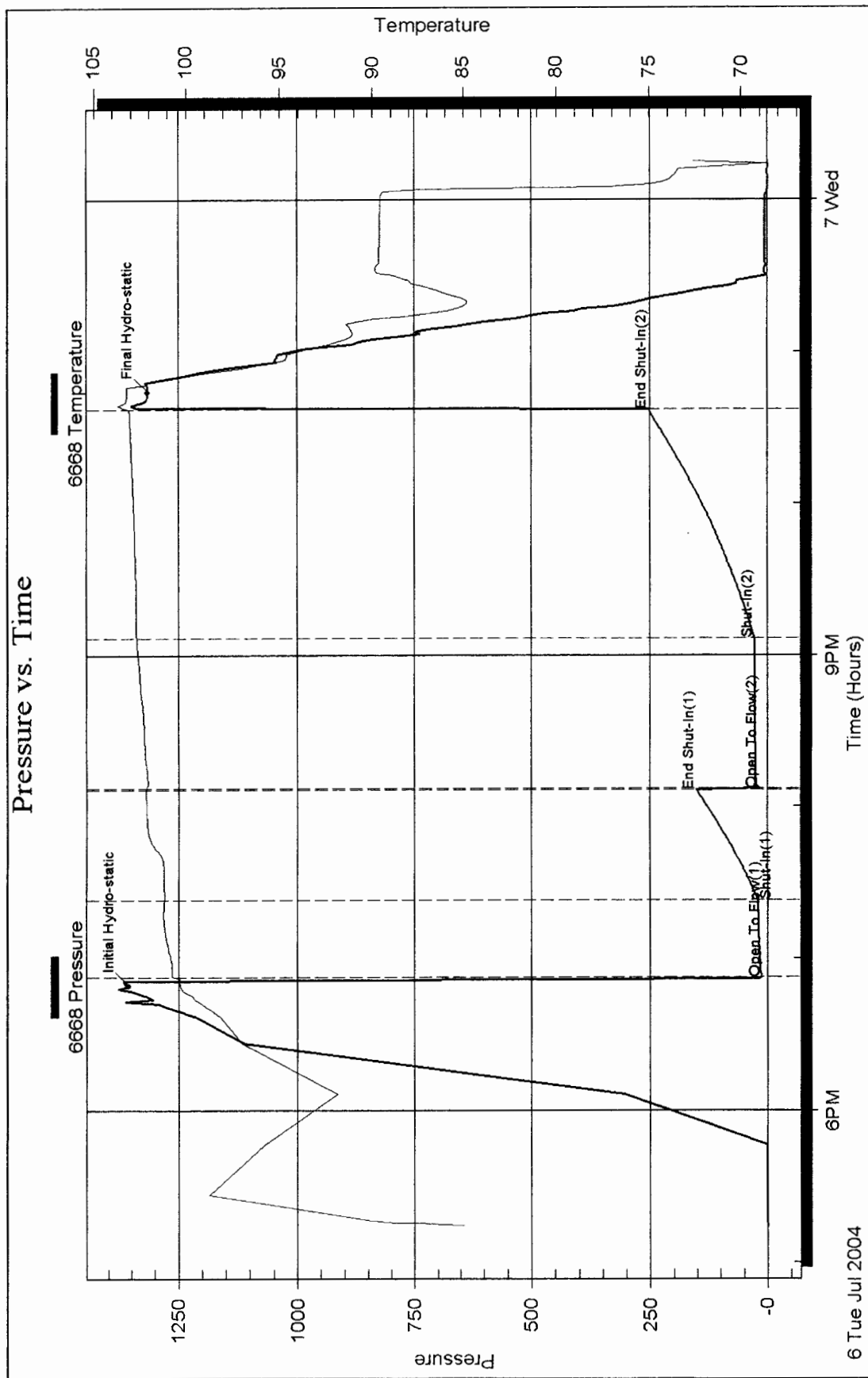
27-15s-12w Russell

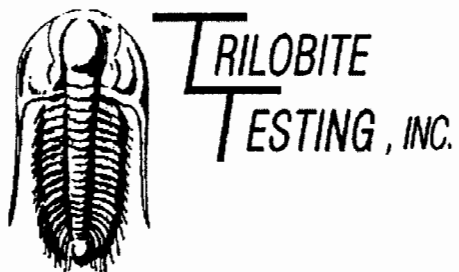
Norstar Petroleum Inc

Inside

Serial #: 6668

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

5 Inverness Drive East
Suite 120
Englewood Co 80112

ATTN: Per Burchardt

27-15s-12w Russell

Janne #1-27

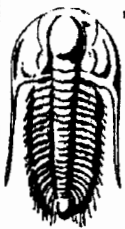
Start Date: 2004.07.07 @ 12:26:39

End Date: 2004.07.07 @ 17:36:08

Job Ticket #: 20033

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
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

Janne #1-27

27-15s-12w Russell

Job Ticket: 20033

DST#: 2

Test Start: 2004.07.07 @ 12:26:39

GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:51:08

Time Test Ended: 17:36:08

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3064.00 ft (KB) To 3096.00 ft (KB) (TVD)**

Total Depth: 3096.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1861.00 ft (KB)

1853.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668 Inside

Press@RunDepth: 27.07 psig @ 3065.01 ft (KB)

Start Date: 2004.07.07

End Date:

2004.07.07

Start Time: 12:26:39

End Time:

17:36:08

Capacity: 7000.00 psig

Last Calib.: 2004.07.07

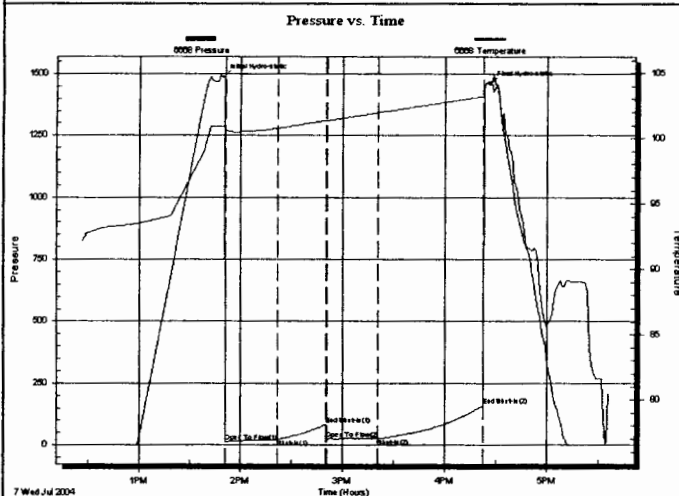
Time On Btm: 2004.07.07 @ 13:49:38

Time Off Btm: 2004.07.07 @ 16:26:08

TEST COMMENT: IFP-w k surface bl thru-out

FFP-no bl

Times 30-30-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1484.42	100.91	Initial Hydro-static
2	12.69	100.64	Open To Flow (1)
32	22.84	100.76	Shut-In(1)
61	84.16	101.36	End Shut-In(1)
61	25.74	101.34	Open To Flow (2)
91	27.07	101.95	Shut-In(2)
153	159.90	103.21	End Shut-In(2)
157	1458.22	104.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud w/show of oil	0.12

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
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

Janne #1-27

27-15s-12w Russell

Job Ticket: 20033

DST#: 2

Test Start: 2004.07.07 @ 12:26:39

Tool Information

Drill Pipe:	Length: 3043.00 ft	Diameter: 3.80 inches	Volume: 42.69 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
			Total Volume: 42.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3064.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.02 ft				
Tool Length:	53.02 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			3044.00	
Shut In Tool	5.00			3049.00	
Hydraulic tool	5.00			3054.00	
Packer	5.00			3059.00	21.00 Bottom Of Top Packer
Packer	5.00			3064.00	
Stubb	1.00			3065.00	
Recorder	0.01	6668	Inside	3065.01	
Perforations	28.00			3093.01	
Recorder	0.01	13534	Outside	3093.02	
Bullnose	3.00			3096.02	32.02 Bottom Packers & Anchor
Total Tool Length:	53.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

Janne #1-27

5 Inverness Drive East
Suite 120
Englewood Co 80112
ATTN: Per Burchardt

27-15s-12w Russell

Job Ticket: 20033

DST#: 2

Test Start: 2004.07.07 @ 12:26:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 11.98 in³

Resistivity: ohm.m

Salinity: 5100.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	mud w/show of oil	0.123

Total Length: 25.00 ft

Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

Inside

Norstar Petroleum Inc

27-15s-12w Russell

DST Test Number: 2

Pressure vs. Time

