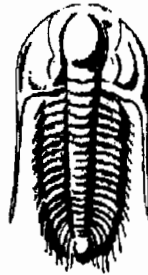


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TRILOBITE
TESTING, INC.

KCC

JUN 2 9 2004

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DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

5 Inverness Drive Ste. 120
Englewood, CO. 80112

ATTN: Randy Kilian

^W
28-15-12-Russe!!

Luerman #1-28

Start Date: 2004.05.04 @ 06:21:09

End Date: 2004.05.04 @ 13:14:48

Job Ticket #: 17393 DST #: 1

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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 Ste.120
Englewood, CO. 80112
ATTN: Randy Kilian

Luerman #1-28
28-15-12-Russell
Job Ticket: 17393 **DST#: 1**
Test Start: 2004.05.04 @ 06:21:09

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 07:49:19
Time Test Ended: 13:14:48

Test Type: **Conventional Bottom Hole**
Tester: **Jason McLemore**
Unit No: **24**

Interval: **3211.00 ft (KB) To 3237.00 ft (KB) (TVD)**
Total Depth: **3237.00 ft (KB) (TVD)**
Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **1795.00 ft (KB)**
1790.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6753 Inside

Press@RunDepth: **163.34 psig @ 3214.00 ft (KB)**

Start Date: **2004.05.04**

End Date: **2004.05.04**

Start Time: **06:21:39**

End Time: **13:14:48**

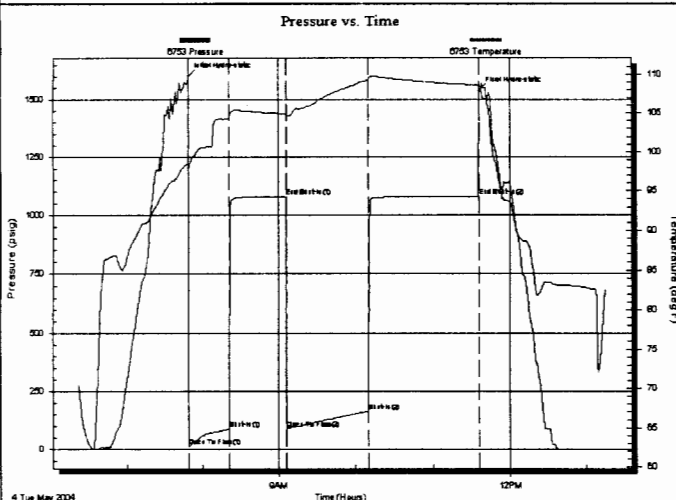
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.05.04 @ 07:49:09**

Time Off Btm: **2004.05.04 @ 11:36:09**

TEST COMMENT: IFP-Fair Blow, BOB in 27 min
ISI-Surface Blow back after 5 min
FFP-Fair Blow, BOB in 33 min.
FSI Surface Blow back for 50 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.73	98.69	Initial Hydro-static
1	12.49	97.73	Open To Flow (1)
32	88.13	104.41	Shut-In (1)
77	1080.33	104.95	End Shut-In (1)
77	89.36	104.67	Open To Flow (2)
141	163.34	109.24	Shut-In (2)
227	1080.32	108.54	End Shut-In (2)
227	1536.08	108.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Muddy Water W/OS	1.82
105.00	Clean Oil	1.47

Gas Rates

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

Luerman #1-28

5 Inverness Drive Ste. 120
Englewood, CO. 80112

28-15-12-Russell

Job Ticket: 17393

DST#: 1

ATTN: Randy Kilian

Test Start: 2004.05.04 @ 06:21:09

Tool Information

Drill Pipe:	Length: 3074.00 ft	Diameter: 3.80 inches	Volume: 43.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 43.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3211.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 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			3191.00	
Shut In Tool	5.00			3196.00	
Hydraulic tool	5.00			3201.00	
Packer	5.00			3206.00	21.00 Bottom Of Top Packer
Packer	5.00			3211.00	
Stubb	1.00			3212.00	
Perforations	2.00			3214.00	
Recorder	0.00	6753	Inside	3214.00	
Perforations	20.00			3234.00	
Recorder	0.00	13252	Outside	3234.00	
Bullnose	3.00			3237.00	26.00 Bottom Packers & Anchor

Total Tool Length: 47.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

Luerman #1-28

5 Inverness Drive Ste. 120
Englewood, CO. 80112

28-15-12-Russell

Job Ticket: 17393

DST#: 1

ATTN: Randy Kilian

Test Start: 2004.05.04 @ 06:21:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Muddy Water W/OS	1.816
105.00	Clean Oil	1.473

Total Length: 315.00 ft

Total Volume: 3.289 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

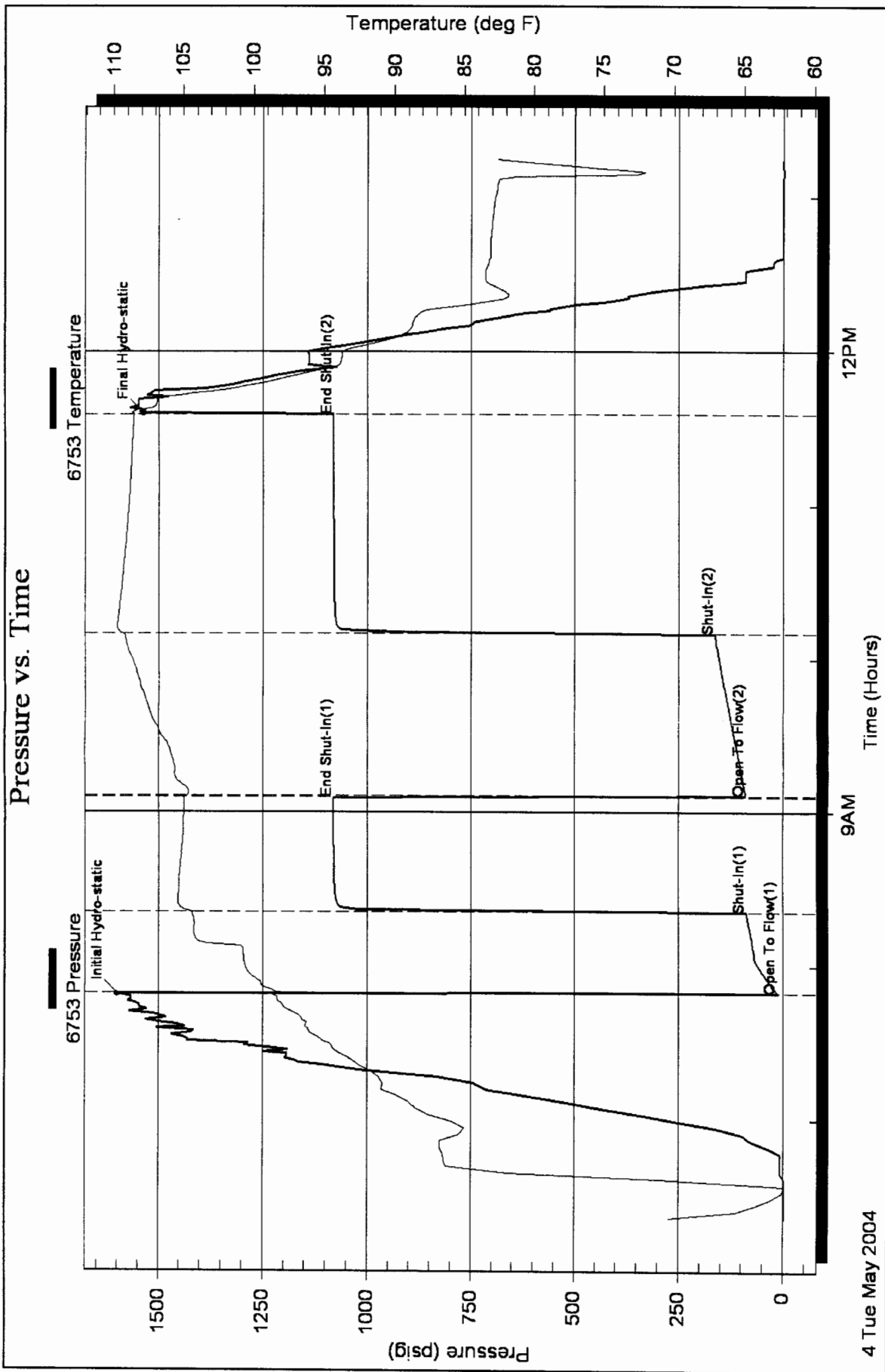
Laboratory Name:

Laboratory Location:

Recovery Comments:

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Pressure vs. Time



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