

CONFIDENTIAL

ARROW TESTING COMPANY
P. O. BOX 1051 GREAT BEND, KANSAS 67530

ORIGINAL

DRILL-STEM TEST DATA

11-185-24w

Well Name	Hopper	Test No.	1
Well Number	1	Zone Tested	Sand
Company	Palomino Petroleum, Inc.	Date	12/10/03
Comp. Rep.	R Schreiber	Tester	Don Fabricius
Contractor	Pickrell Drlg	Ticket No.	4119
Location	4-56-14	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 4355 Depth 4359
 Initial Hydro Mud Press. 2163 Initial Hydro Mud Press. 2163
 Initial Shut-in Press. 1347 Initial Shut-in Press. 1340
 Initial Flow Press. 129-695 Initial Flow Press. 129-692
 Final Flow Press. 707-1013 Final Flow Press. 704-1009
 Final Shut-in Press. 1347 Final Shut-in Press. 1340
 Final Hydro Mud Press. 2163 Final Hydro Mud Press. 2163
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.3 Viscosity 40.0 Initial Shut-in 30 Mins.
 Fluid Loss 9.6 Flow Period 30 Mins.
 Interval Tested 4316-63 Final Shut-in 30 Mins.
 Top Packer Depth 4311 Surface Choke Size 1
 Bottom Packer Depth 4316 Bottom Choke Size 3/4
 Total Depth 4563 Main Hole Size 7 7/8
 Drill Pipe Size 4 1/2 XH Wt. 1660 Rubber Size 6 3/4
 Drill Collar I. D. _____ Ft. Bun _____
 Recovery—Total Feet _____
 Recovered 2580 Feet Of _____ Oil _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

RECEIVED

APR 28 2004

KCC WICHITA

Remarks
Strong blow through test

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

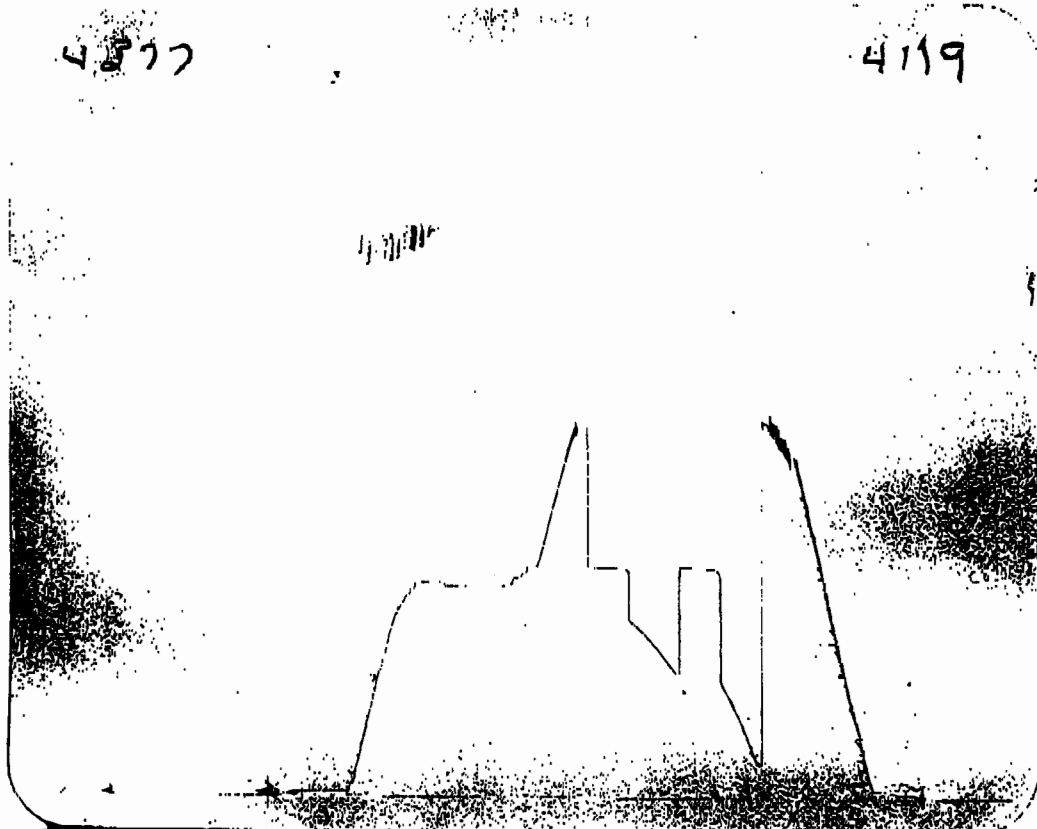
It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

CONFIDENTIAL

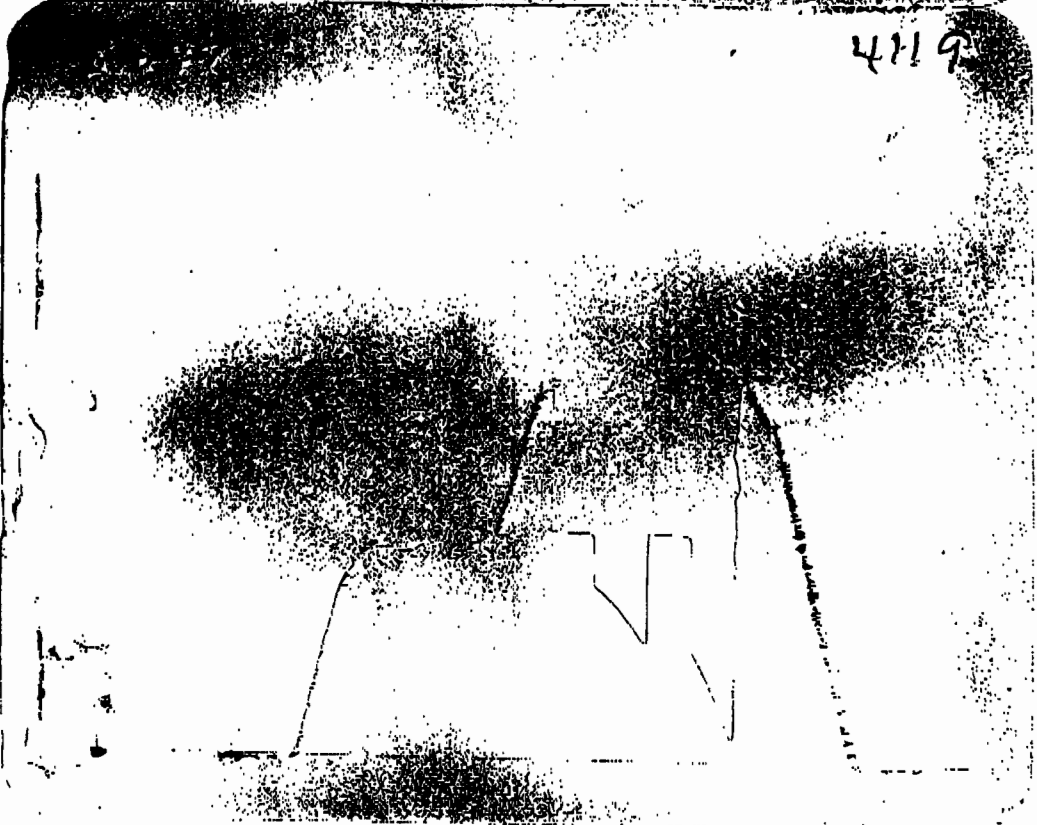
ORIGINAL

4117

4119



4119



RECEIVED
APR 28 2004
KCC WICHITA