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DEC 11 2003

ARROW TESTING COMPANY

P. O. BOX 1051

GREAT BEND, KANSAS 67530

ORIGINAL

KCC WICHITA

DRILL-STEM TEST DATA

Well Name	Ambrosier	Test No.	1
Well Number	1	Zone Tested	KC
Company	A & A Production	Date	11/21/03
Comp. Rep.	T Morgenstern	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4116
Location	19-8-22	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3422 Depth 3426
 Initial Hydro Mud Press. 1704 Initial Hydro Mud Press. 1707
 Initial Shut-in Press. 1151 Initial Shut-in Press. 1157
 Initial Flow Press. 35-35 Initial Flow Press. 11-11
 Final Flow Press. 58-58 Final Flow Press. 23-23
 Final Shut-in Press. 1151 Final Shut-in Press. 1157
 Final Hydro Mud Press. 1704 Final Hydro Mud Press. 1707
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.3 Viscosity 45.0 Initial Shut-in 30 Mins.
 Fluid Loss 7.2 Flow Period 30 Mins.
 Interval Tested 3405-30 Final Shut-in 30 Mins.
 Top Packer Depth 3400 Surface Choke Size 1
 Bottom Packer Depth 3405 Bottom Choke Size 3/4
 Total Depth 3430 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. Run _____
 Recovery—Total Feet _____
 Recovered 35 Feet Of _____ Mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Remarks
Very weak blow thru-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.

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DRILL-STEM TEST DATA

Well Name	Ambrosier	Test No.	2
Well Number	1	Zone Tested	KC
Company	A & A Production	Date	11/22/03
Comp. Rep.	T Morgenstern	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4117
Location	19-8-22	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3466 Depth 3470
 Initial Hydro Mud Press. 1692 Initial Hydro Mud Press. 1695
 Initial Shut-in Press. 1036 Initial Shut-in Press. 1032
 Initial Flow Press. 11-11 Initial Flow Press. 46-46
 Final Flow Press. 23-23 Final Flow Press. 46-46
 Final Shut-in Press. 1036 Final Shut-in Press. 1032
 Final Hydro Mud Press. 1692 Final Hydro Mud Press. 1695
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.3 Viscosity 45.0 Initial Shut-in 30 Mins.
 Fluid Loss 7.2 Flow Period 30 Mins.
 Interval Tested 3436-74 Final Shut-in 30 Mins.
 Top Packer Depth 3431 Surface Choke Size 1"
 Bottom Packer Depth 3436 Bottom Choke Size 3/4
 Total Depth 3474 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. Run _____
 Recovery—Total Feet _____
 Recovered 20 Feet Of _____ Mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Remarks Very weak blow for 50 min

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ORIGINAL

DRILL-STEM TEST DATA

Well Name	Ambrosier	Test No.	3
Well Number	1	Zone Tested	KC
Company	A & A Production	Date	11/23/03
Comp. Rep.	T Morgenstern	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4118
Location	19-8-22	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3562 Depth 3566
 Initial Hydro Mud Press. 1750 Initial Hydro Mud Press. 1752
 Initial Shut-in Press. 23 Initial Shut-in Press. 23
 Initial Flow Press. 23-23 Initial Flow Press. 23-23
 Final Flow Press. 23-23 Final Flow Press. 23-23
 Final Shut-in Press. 23 Final Shut-in Press. 23
 Final Hydro Mud Press. 1750 Final Hydro Mud Press. 1752
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.2 Viscosity 45.0 Initial Shut-in 30 Mins.
 Fluid Loss 8 Flow Period 30 Mins.
 Interval Tested 3500-70 Final Shut-in 1 Mins.
 Top Packer Depth 3495 Surface Choke Size 3/4
 Bottom Packer Depth 3500 Bottom Choke Size 7 7/8
 Total Depth 3570 Main Hole Size 6 3/4
 Drill Pipe Size 4 1/2 XH Wt. 1660 Rubber Size _____
 Drill Collar I. D. _____ Ft. Run _____
 Recovery—Total Feet _____
 Recovered 5 Feet Of _____ Mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Remarks Very weak blow dead in 9 min

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