

RECEIVED

ARROW TESTING COMPANY

DEC 11 2003 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 Drilg	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 Drig	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				
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		Mud				
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Remarks	Very weak blow for 50 min						

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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 Drig	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				
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	30			Mins.	
Top Packer Depth	3495	Surface Choke Size	1"				
Bottom Packer Depth	3500	Bottom Choke Size	3/4				
Total Depth	3570	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		Mud					
Recovered	5	Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Recovered		Feet Of					
Remarks	Very weak blow dead in 9 min						

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