

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

## DRILL-STEM TEST DATA

Well Name	"O" Jones	Test No.	1
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	8-31-89
Comp. Rep.	O. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drlg.	Ticket No.	2760
Location	15-18-18	Elevation	

Recorder No. 3088	Clock Range 12	Recorder No. 4377	Clock Range 12
Depth 3822		Depth 3826	
Initial Hydro Mud Press. 1958		Initial Hydro Mud Press. 1958	
Initial Shut-in Press. 1059		Initial Shut-in Press. 1066	
Initial Flow Press. 47-47		Initial Flow Press. 58-58	
Final Flow Press. 47-47		Final Flow Press. 58-58	
Final Shut-in Press. 919		Final Shut-in Press. 927	
Final Hydro Mud Press. 1958		Final Hydro Mud Press. 1958	
Temperature		Tool Open Before I. S. I. 30	Mins.
Mud Weight 9.4	Viscosity 45	Initial Shut-in 60	Mins.
Fluid Loss 11		Flow Period 30	Mins.
Interval Tested 3771-3830		Final Shut-in 60	Mins.
Top Packer Depth 3766		Surface Choke Size 1"	
Bottom Packer Depth 3771		Bottom Choke Size 3/4"	
Total Depth 3830		Main Hole Size 7 7/8	
Drill Pipe Size 4 1/2 X H	Wt. 16.60	Rubber Size 6 3/4	
Drill Collar I. D.	Ft. Run		
Recovery—Total Feet			
Recovered 30	Feet Of oil cut mud 10% oil		
Recovered	Feet Of		
Recovered	Feet Of		
Recovered	Feet Of		
Remarks			
Very weak blow for 30 min.			

**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.

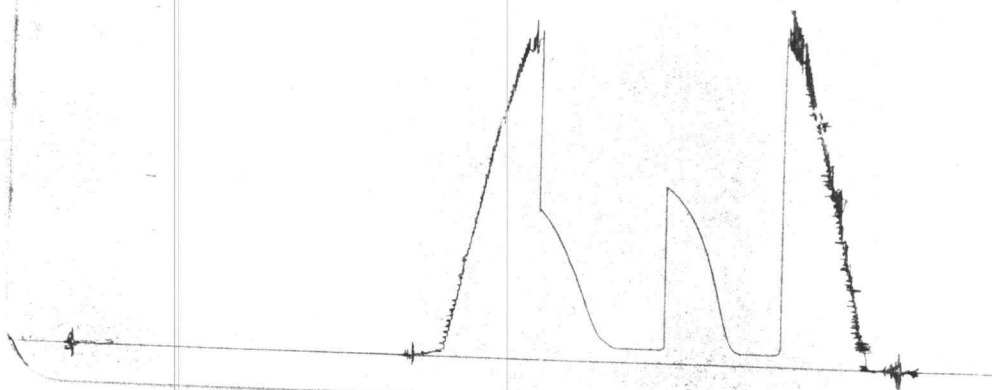
It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the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

By \_\_\_\_\_

Owner, Operator or his Agent

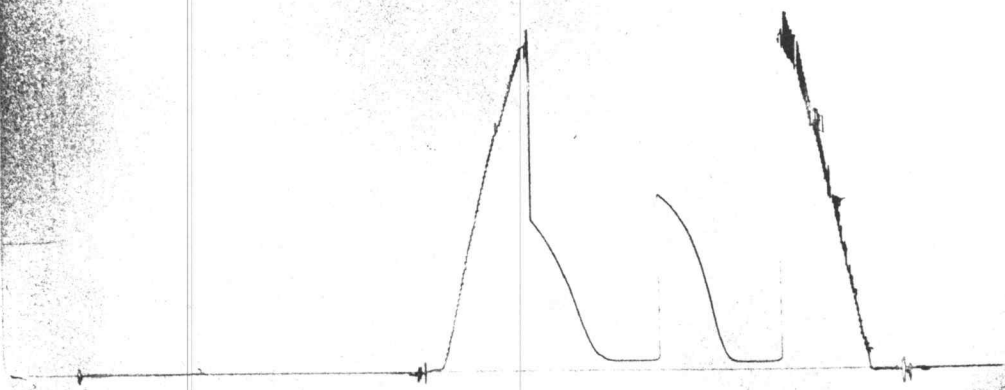
4377

2760



3088

2760



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

**DRILL-STEM TEST DATA**

Well Name	"O" Jones	Test No.	2
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	9-1-89
Comp. Rep.	O.R. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drlg.	Ticket No.	2761
Location	15-18-18	Elevation	

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3825</u>		Depth <u>3829</u>	
Initial Hydro Mud Press. <u>1969</u>		Initial Hydro Mud Press. <u>1970</u>	
Initial Shut-in Press. <u>1232</u>		Initial Shut-in Press. <u>1237</u>	
Initial Flow Press. <u>58-58</u>		Initial Flow Press. <u>70-70</u>	
Final Flow Press. <u>82-82</u>		Final Flow Press. <u>93-93</u>	
Final Shut-in Press. <u>1232</u>		Final Shut-in Press. <u>1237</u>	
Final Hydro Mud Press. <u>1969</u>		Final Hydro Mud Press. <u>1970</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.6</u>	Viscosity <u>41</u>	Initial Shut-in <u>60</u>	Mins.
Fluid Loss <u>12</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3771-3833</u>		Final Shut-in <u>60</u>	Mins.
Top Packer Depth <u>3766</u>		Surface Choke Size <u>1"</u>	
Bottom Packer Depth <u>3771</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>3833</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>110</u>	Feet Of <u>oil cut mud trace of water</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Remarks			
<u>Weak blow thru-test</u>			

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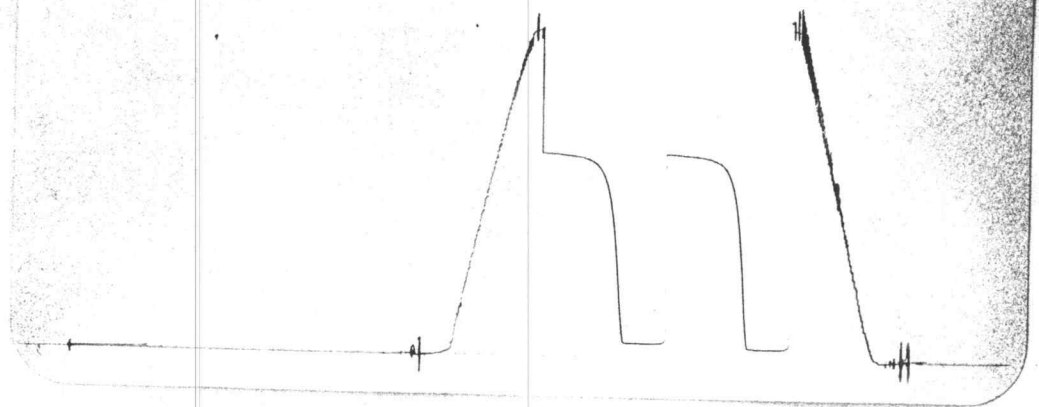
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By \_\_\_\_\_

Owner, Operator or bis Agent

3088

2761



4877

2761

