

DRILL-STEM TEST DATA

Well Name	Stambaugh	Test No.	1
Well Number	2	Zone Tested	KC
Company	J.A. Allison	Date	12-3-90
Comp. Rep.	W. Mantz	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drilling	Ticket No.	2879
Location	9-26-11	Elevation	

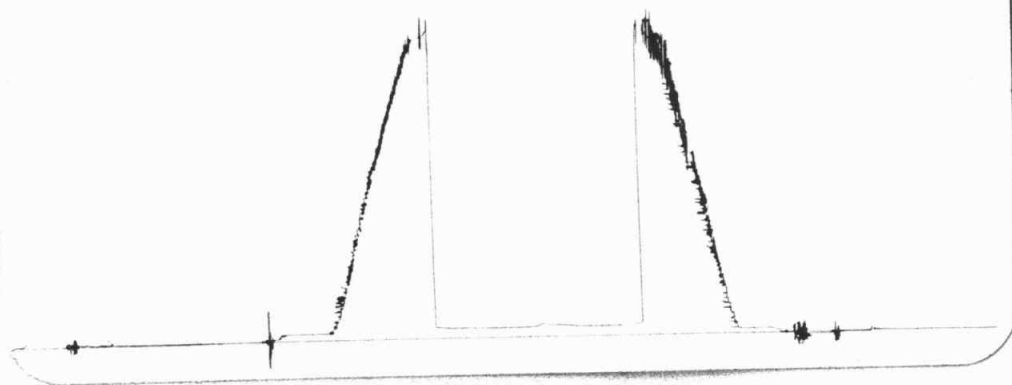
Recorder No. 3088	Clock Range 12	Recorder No. 4377	Clock Range 12
Depth 3658		Depth 3662	
Initial Hydro Mud Press. 1842		Initial Hydro Mud Press. 1844	
Initial Shut-in Press. 82		Initial Shut-in Press. 82	
Initial Flow Press. 58-58		Initial Flow Press. 58-58	
Final Flow Press. 58-58		Final Flow Press. 58-58	
Final Shut-in Press. 70		Final Shut-in Press. 70	
Final Hydro Mud Press. 1842		Final Hydro Mud Press. 1844	
Temperature		Tool Open Before I. S. I. 30	Mins.
Mud Weight 9.2	Viscosity 50	Initial Shut-in 45	Mins.
Fluid Loss 10		Flow Period 30	Mins.
Interval Tested 3602-66		Final Shut-in 45	Mins.
Top Packer Depth 3597		Surface Choke Size 1"	
Bottom Packer Depth 3602		Bottom Choke Size 3/4"	
Total Depth 3666		Main Hole Size 7 7/8	
Drill Pipe Size 4 1/2 X H Wt. 1660		Rubber Size 6 3/4	
Drill Collar I. D. Ft. Run			
Recovery—Total Feet			
Recovered 6 Feet Of mud			
Recovered Feet Of			
Recovered Feet Of			
Recovered Feet Of			
Remarks			
Very weak blow dead in 20 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.

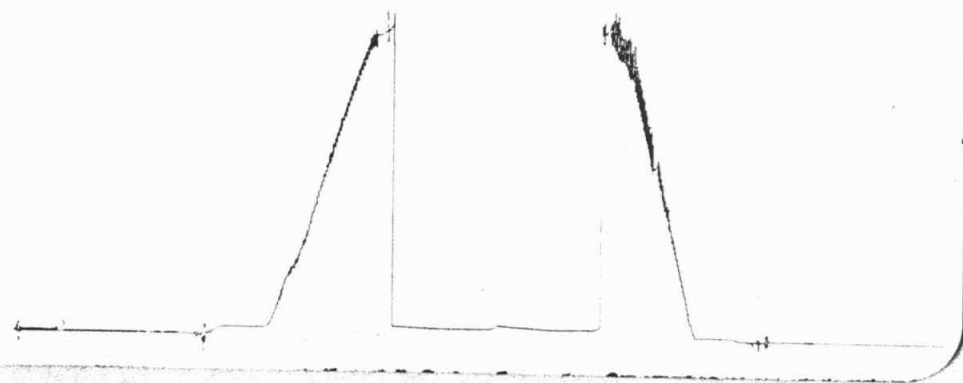
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By _____
Owner, Operator or his Agent

4377



3088



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

DRILL-STEM TEST DATA

Well Name	Stambaugh	Test No.	2
Well Number	2	Zone Tested	KC
Company	J.A. Allison	Date	12-4-90
Comp. Rep.	W. Mantz	Tester	Don Fabricius
Contractor	Woodman Iannitti Drilling	Ticket No.	2880
Location	9-26-11	Elevation	

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3912</u>		Depth <u>3916</u>	
Initial Hydro Mud Press. <u>2027</u>		Initial Hydro Mud Press. <u>2027</u>	
Initial Shut-in Press. <u>1094</u>		Initial Shut-in Press. <u>1089</u>	
Initial Flow Press. <u>11-11</u>		Initial Flow Press. <u>11-11</u>	
Final Flow Press. <u>35-35</u>		Final Flow Press. <u>35-35</u>	
Final Shut-in Press. <u>789</u>		Final Shut-in Press. <u>786</u>	
Final Hydro Mud Press. <u>2027</u>		Final Hydro Mud Press. <u>2027</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u> Mins.	
Mud Weight <u>9.4</u> Viscosity <u>45</u>		Initial Shut-in <u>45</u> Mins.	
Fluid Loss <u>10.4</u>		Flow Period <u>30</u> Mins.	
Interval Tested <u>3900-20</u>		Final Shut-in <u>45</u> Mins.	
Top Packer Depth <u>3895</u>		Surface Choke Size <u>1"</u>	
Bottom Packer Depth <u>3900</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>3920</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2</u> X H Wt. <u>1660</u>		Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____ Ft. Run _____			
Recovery—Total Feet _____			
Recovered <u>15</u> Feet Of <u>mud</u>			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Recovered _____ Feet Of _____			
Remarks <u>Weak blow dead in 25 min.</u>			

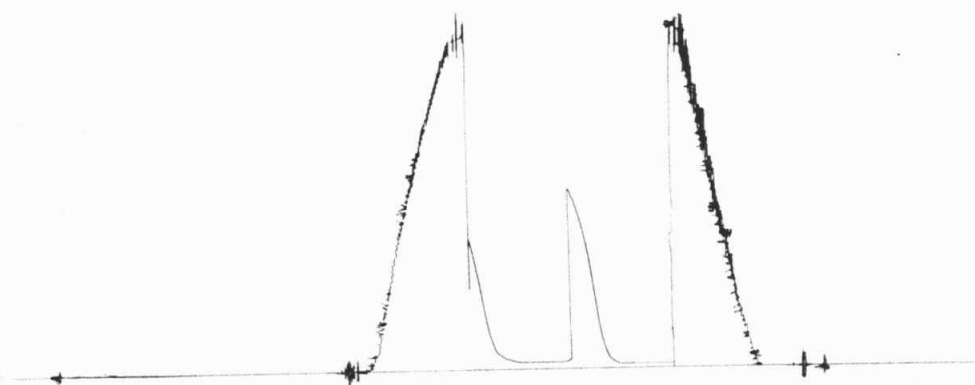
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By _____
Owner, Operator or his Agent

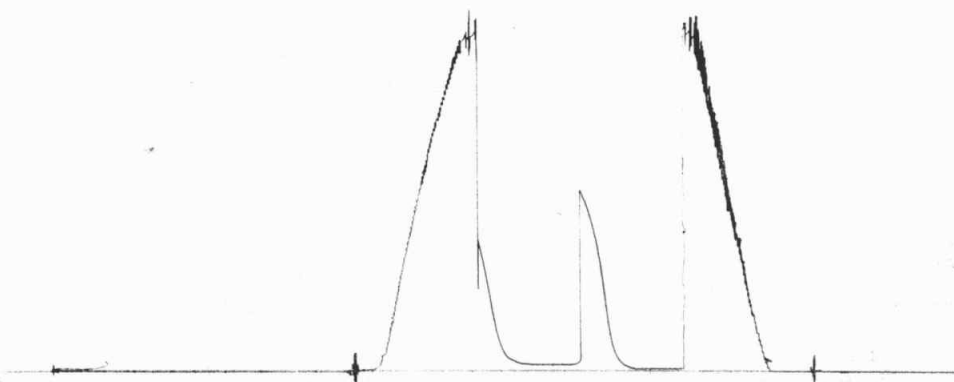
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DRILL-STEM TEST DATA

Well Name	Stambaugh	Test No.	3
Well Number	2	Zone Tested	Miss
Company	J.A. Allison	Date	12-5-90
Comp. Rep.	W. Mantz	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drilling	Ticket No.	2881
Location	9-26-11	Elevation	

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>4069</u>		Depth <u>4073</u>	
Initial Hydro Mud Press. <u>2083</u>		Initial Hydro Mud Press. <u>2072</u>	
Initial Shut-in Press. <u>164</u>		Initial Shut-in Press. <u>164</u>	
Initial Flow Press. <u>35-35</u>		Initial Flow Press. <u>35-35</u>	
Final Flow Press. <u>35-35</u>		Final Flow Press. <u>35-35</u>	
Final Shut-in Press. <u>82</u>		Final Shut-in Press. <u>82</u>	
Final Hydro Mud Press. <u>2083</u>		Final Hydro Mud Press. <u>2072</u>	
Temperature _____		Tool Open Before I. S. I. <u>15</u>	Mins.
Mud Weight <u>9.4</u>	Viscosity <u>43</u>	Initial Shut-in <u>45</u>	Mins.
Fluid Loss <u>11</u>		Flow Period <u>90</u>	Mins.
Interval Tested <u>4036-77</u>		Final Shut-in <u>90</u>	Mins.
Top Packer Depth <u>4031</u>		Surface Choke Size <u>1"</u>	
Bottom Packer Depth <u>4036</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>4077</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>1660</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>1020</u>	Feet Of <u>gas in pipe</u>		
Recovered <u>15</u>	Feet Of <u>very slightly gas cut mud</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Remarks			
<u>Weak blow building to strong thru-test</u>			

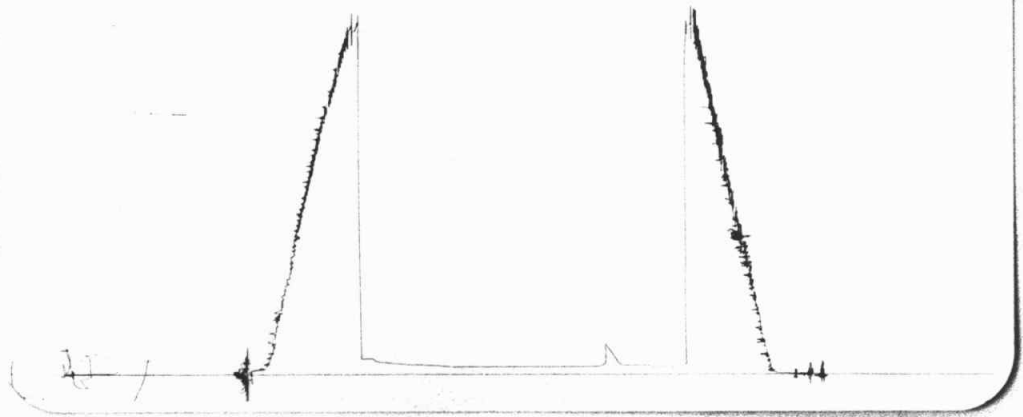
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By _____
Owner, Operator or his Agent

4377

2881



5088

2881

