

DRILL-STEM TEST DATA

Well Name	Bahr	Test No.	1
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	5-1-89
Comp. Rep.	O. Phelps	Tester	Don Fabricius
Contractor	Woodman-Iannitti Drlg.	Ticket No.	2717
Location	23-18-18	Elevation	

Recorder No. 3088	Clock Range 12	Recorder No. 4377	Clock Range 12
Depth 3745		Depth 3749	
Initial Hydro Mud Press. 1935		Initial Hydro Mud Press. 1935	
Initial Shut-in Press. 70		Initial Shut-in Press. 82	
Initial Flow Press. 23-23		Initial Flow Press. 46-46	
Final Flow Press. 23-23		Final Flow Press. 46-46	
Final Shut-in Press. 58		Final Shut-in Press. 82	
Final Hydro Mud Press. 1935		Final Hydro Mud Press. 1935	
Temperature		Tool Open Before I. S. I. 30	Mins.
Mud Weight 9.5	Viscosity 45	Initial Shut-in 45	Mins.
Fluid Loss 9.2		Flow Period 30	Mins.
Interval Tested 3707-53		Final Shut-in 45	Mins.
Top Packer Depth 3702		Surface Choke Size 1"	
Bottom Packer Depth 3707		Bottom Choke Size 3/4"	
Total Depth 3753		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 5	Feet Of mud		
Recovered	Feet Of		
Recovered	Feet Of		
Recovered	Feet Of		

Remarks

Very weak blow dead in 12 min. flushed tool on second open - surge -

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.

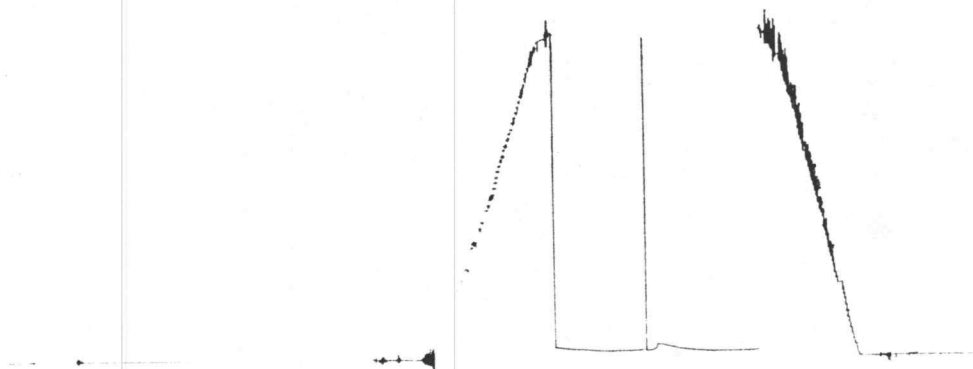
It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the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

By _____

Owner, Operator or his Agent

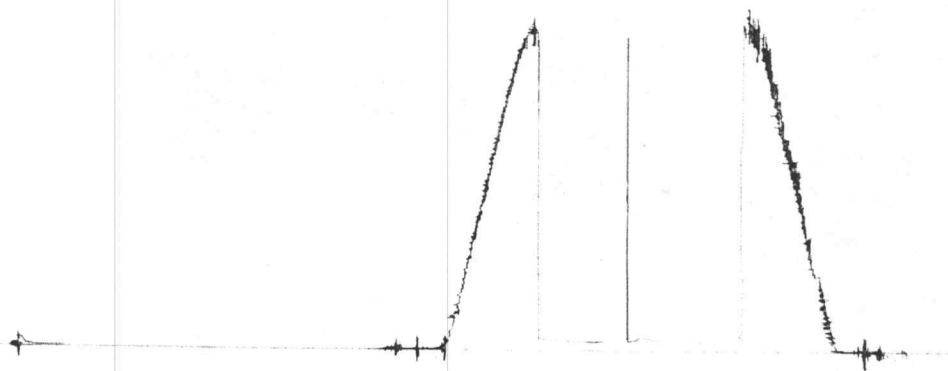
2088

2717



4377

2717



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

DRILL-STEM TEST DATA

Well Name	Bahr	Test No.	2
Well Number	2	Zone Tested	Arb
Company	J.A. Allison	Date	5-1-89
Comp. Rep.	O. Phelps	Tester	Don Fabricius
Contractor	Woodman Iannitti Drlg.	Ticket No.	2718
Location	23-18-18	Elevation	

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3749</u>		Depth <u>3753</u>	
Initial Hydro Mud Press. <u>1935</u>		Initial Hydro Mud Press. <u>1935</u>	
Initial Shut-in Press. <u>1197</u>		Initial Shut-in Press. <u>1203</u>	
Initial Flow Press. <u>58-223</u>		Initial Flow Press. <u>82-234</u>	
Final Flow Press. <u>270-353</u>		Final Flow Press. <u>293-375</u>	
Final Shut-in Press. <u>1186</u>		Final Shut-in Press. <u>1192</u>	
Final Hydro Mud Press. <u>1935</u>		Final Hydro Mud Press. <u>1935</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.5</u>	Viscosity <u>46</u>	Initial Shut-in <u>45</u>	Mins.
Fluid Loss <u>10</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3707-57</u>		Final Shut-in <u>45</u>	Mins.
Top Packer Depth <u>3702</u>		Surface Choke Size <u>1"</u>	
Bottom Packer Depth <u>3707</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>3757</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 <u>705</u>			
Recovered <u>207</u>	Feet Of <u>mud</u>		
Recovered <u>44</u>	Feet Of <u>oil</u>		
Recovered <u>454</u>	Feet Of <u>water</u>		
Recovered _____	Feet Of _____		

Remarks

Weak building to strong blow thru test

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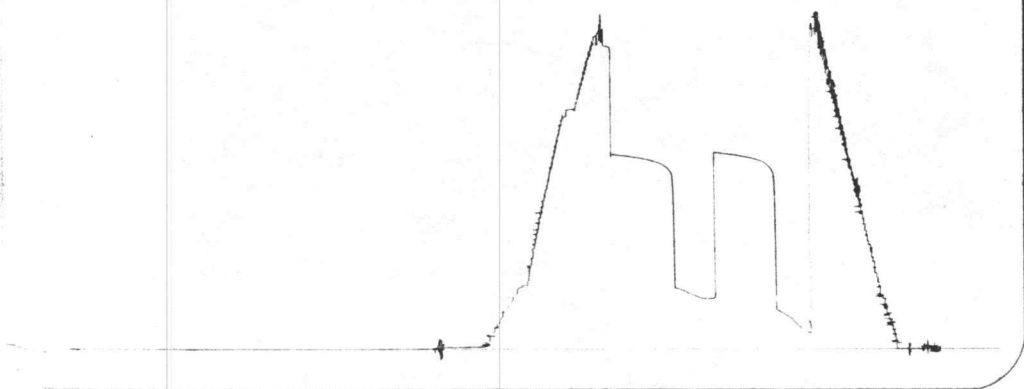
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By _____

Owner, Operator or his Agent

4377

2718



3088

2718

