



DRILL STEM TESTING REPORT

DRILL-STEM TEST DATA

Well Name	Stueckeman	Test No.	1
Well Number	1	Zone Tested	Sand
Company	Imperial Oil Co.	Date	8-18-69
Comp. Rep.	Charley Shank	Tester	Don Fabricius
Contractor	Co tools	Ticket No.	329
Location	14-23-19	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 207 Clock Range 8
 Depth 4470 Depth 4499
 Initial Hydro Mud Press. 2430 Initial Hydro Mud Press. 2430
 Initial Shut-in Press. 4046 Initial Shut-in Press. 0
 Initial Flow Press. 35 Initial Flow Press. 0
 Final Flow Press. 35 Final Flow Press. 0
 Final Shut-in Press. 35 Final Shut-in Press. 0
 Final Hydro Mud Press. 2430 Final Hydro Mud Press. 2430
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 10 Viscosity 45 Initial Shut-in 30 Mins.
 Fluid Loss 11 Flow Period 30 Mins.
 Interval Tested 4474-99 Final Shut-in 30 Mins.
 Top Packer Depth _____ Surface Choke Size 1 1/4
 Bottom Packer Depth 4474 Bottom Choke Size 3/4"
 Total Depth 4499 Main Hole Size 7 7/8
 Drill Pipe Size 4 1/2 FH Wt. 1660 Rubber Size 6 3/4
 Drill Collar I. D. _____ Ft. Run _____
 Recovery—Total Feet 10
 Recovered 10 Feet Of Mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Remarks
Very weak blow dead in 5 minutes

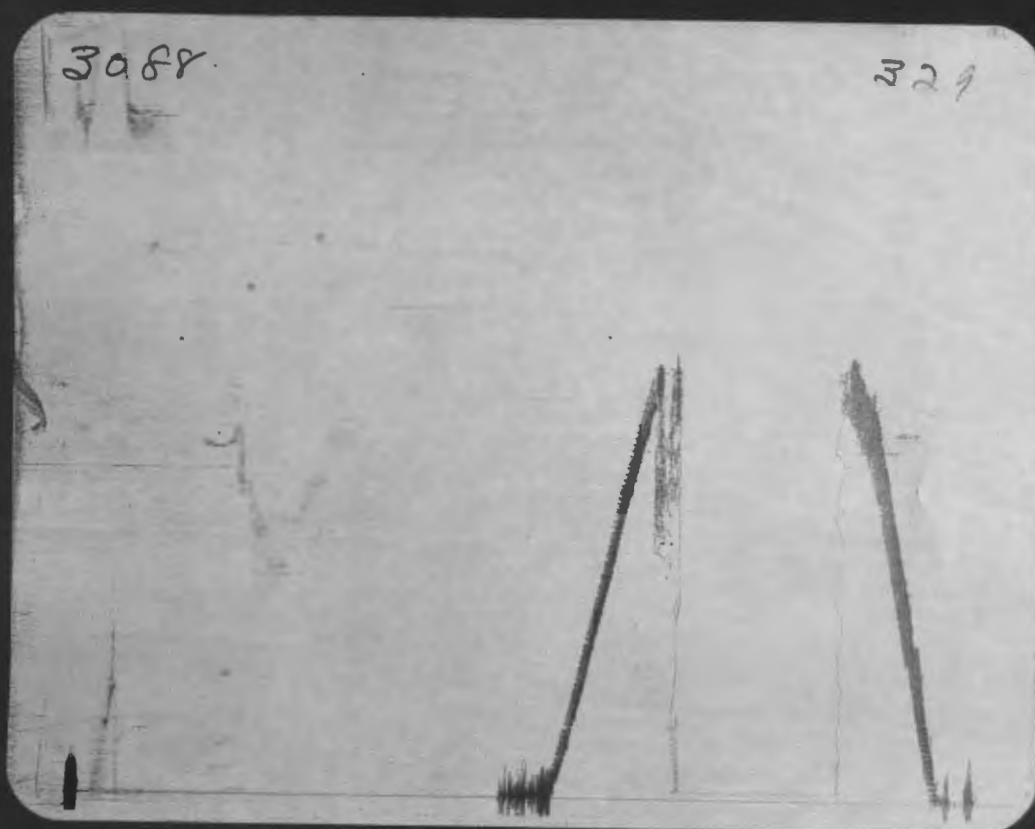
THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood 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 _____

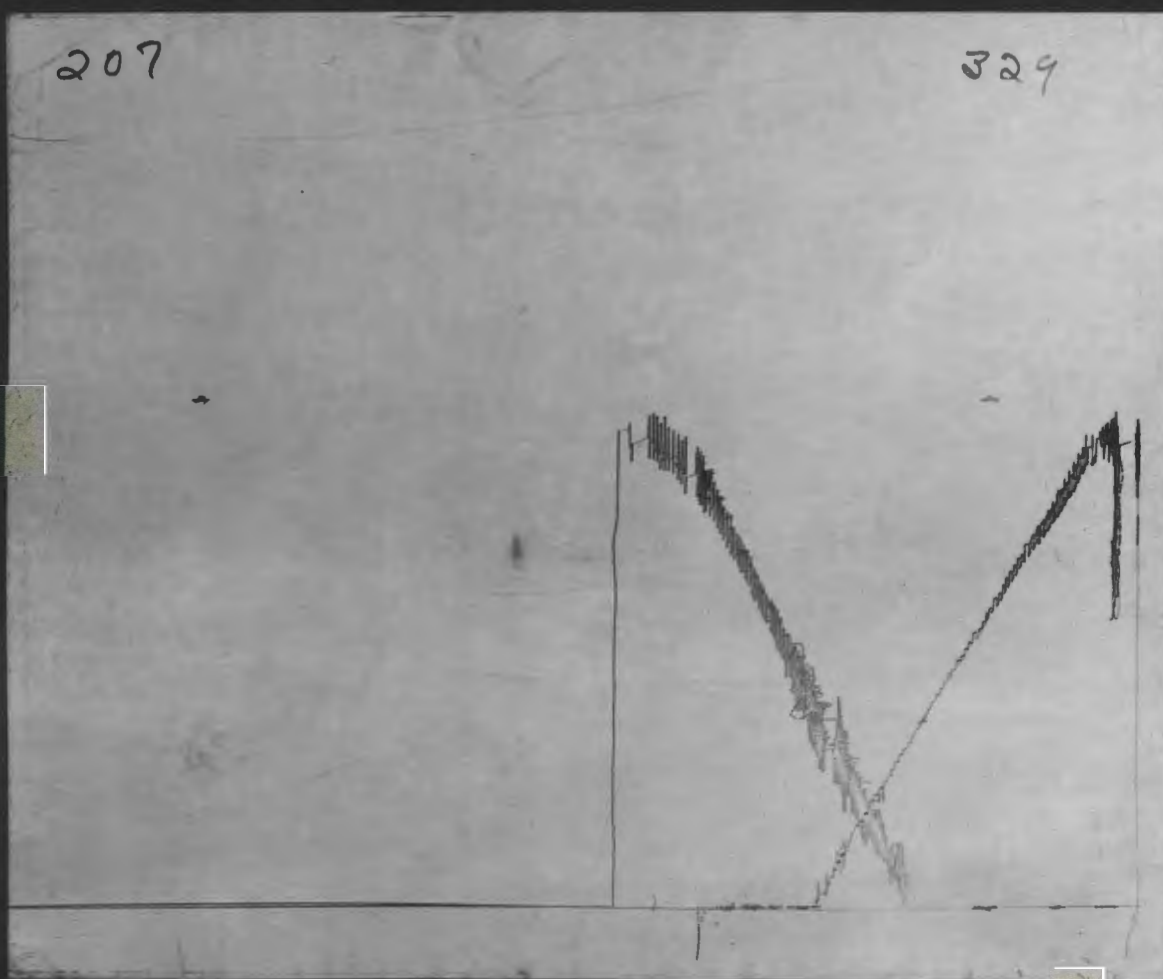
3088.

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DRILL-STEM TEST DATA

Well Name <u>Stueckeman</u>	Test No. <u>2</u>
Well Number <u>1</u>	Zone Tested <u>Miss</u>
Company <u>Imperial Oil Co.</u>	Date <u>8-19-69</u>
Comp. Rep. <u>Charley Shank</u>	Tester <u>Don Fabricius</u>
Contractor <u>Co tools</u>	Ticket No. <u>330</u>
Location <u>14-23-19</u>	Elevation

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>207</u>	Clock Range <u>8</u>
Depth <u>4518</u>		Depth <u>4547</u>	
Initial Hydro Mud Press. <u>2420</u>		Initial Hydro Mud Press. <u>2420</u>	
Initial Shut-in Press. <u>1340</u>		Initial Shut-in Press. <u>1340</u>	
Initial Flow Press. <u>70</u>		Initial Flow Press. <u>80</u>	
Final Flow Press. <u>387</u>		Final Flow Press. <u>350</u>	
Final Shut-in Press. <u>1283</u>		Final Shut-in Press. <u>1280</u>	
Final Hydro Mud Press. <u>2420</u>		Final Hydro Mud Press. <u>2420</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>10</u>	Viscosity <u>50</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>12</u>		Flow Period <u>6</u>	Mins.
Interval Tested <u>4422-47</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth _____		Surface Choke Size <u>1 1/4</u>	
Bottom Packer Depth <u>4422</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>4447</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 FH</u>	Wt. <u>1660</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet <u>680</u>			
Recovered <u>680</u>	Feet Of <u>Muddy Salt Water with a few specks of oil</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Remarks			
<u>Strong blow thru test.</u>			

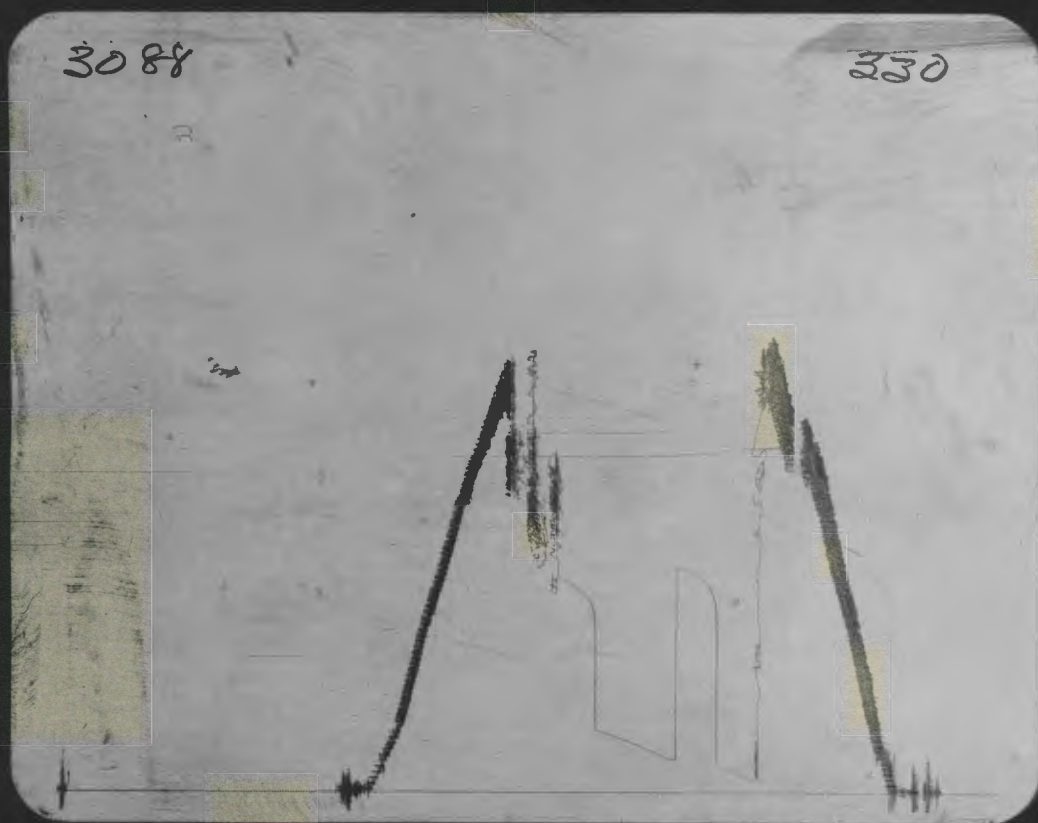
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By _____
Owner, Operator or his Agent

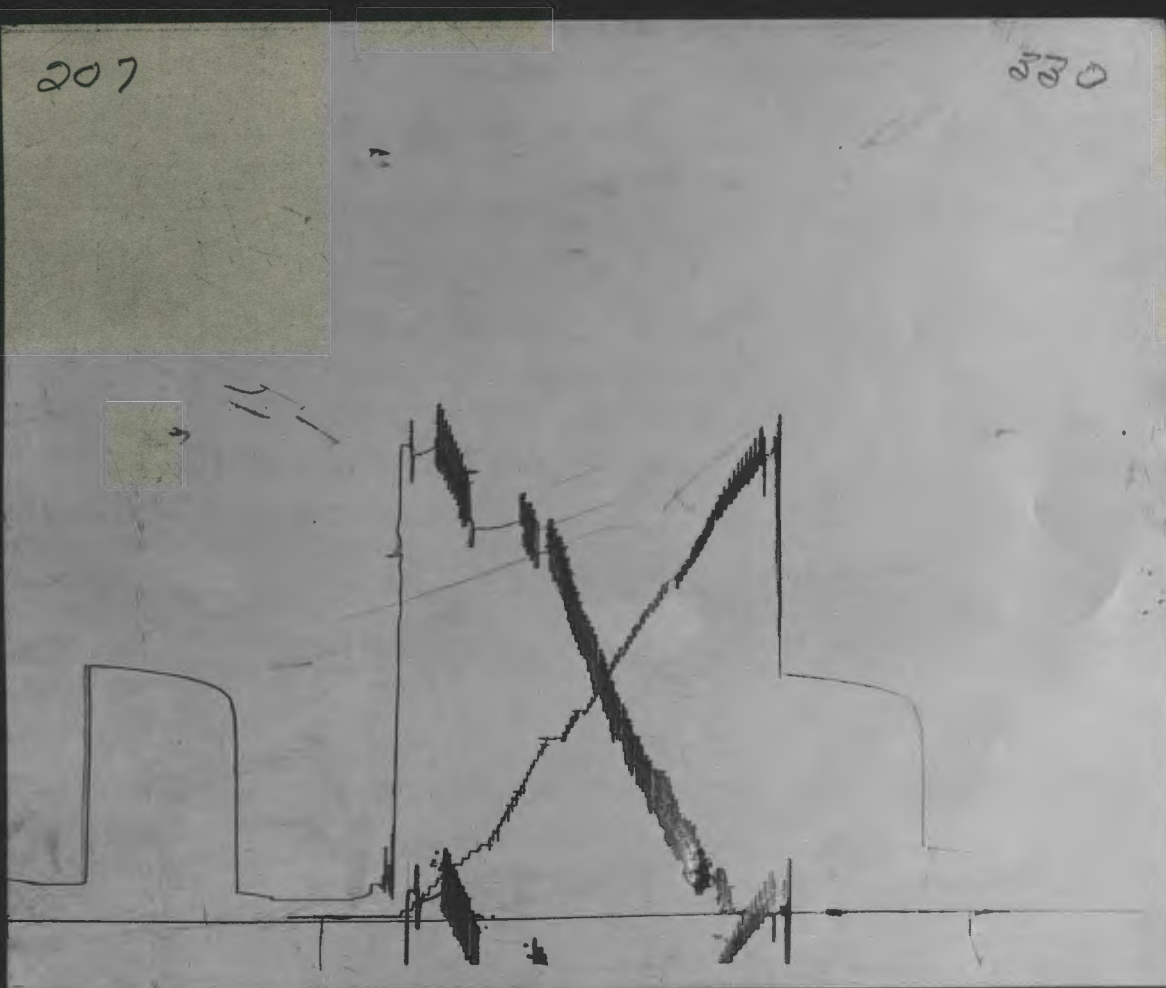
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ARROW TESTING COMPANY

P. O. BOX 1051

GREAT BEND, KANSAS 67530

DRILL-STEM TEST DATA

Well Name	Stueckeman	Test No.	3
Well Number	1	Zone Tested	KC
Company	Imperial Oil Co.	Date	8-20-69
Comp. Rep.	Charley Shank	Tester	Don Fabricius
Contractor	Co tools	Ticket No.	331
Location	14-23-19	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 207 Clock Range 8

Depth 4095 Depth 4140

Initial Hydro Mud Press. 2280 Initial Hydro Mud Press. 2280

Initial Shut-in Press. 1352 Initial Shut-in Press.

Initial Flow Press. 129 Initial Flow Press. STRADDLE TEST

Final Flow Press. 762 Final Flow Press.

Final Shut-in Press. 1340 Final Shut-in Press.

Final Hydro Mud Press. 2280 Final Hydro Mud Press. 2280

Temperature Tool Open Before I. S. I. 30 Mins.

Mud Weight 10 Viscosity 50 Initial Shut-in 30 Mins.

Fluid Loss 11 Flow Period 30 Mins.

Interval Tested 4099-4127 Final Shut-in 30 Mins.

Top Packer Depth 4099 Surface Choke Size 1 1/4"

Bottom Packer Depth 4127 Bottom Choke Size 3/4"

Total Depth 4547 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 FH Wt. 1660 Rubber Size 6 3/4

Drill Collar I. D. Ft. Run

Recovery—Total Feet 1400

Recovered 1400 Feet Of Muddy Salt Water

Recovered Feet Of

Recovered Feet Of

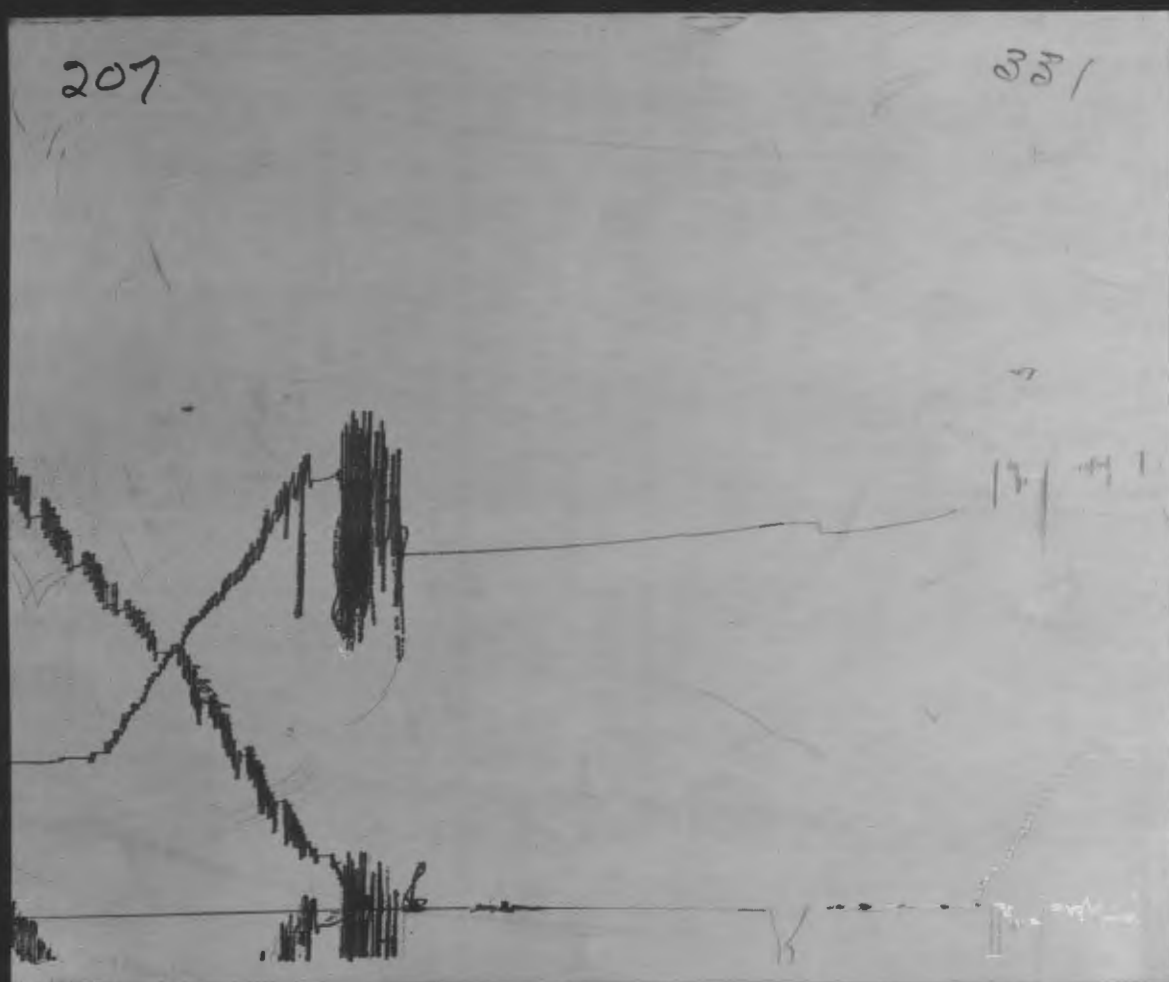
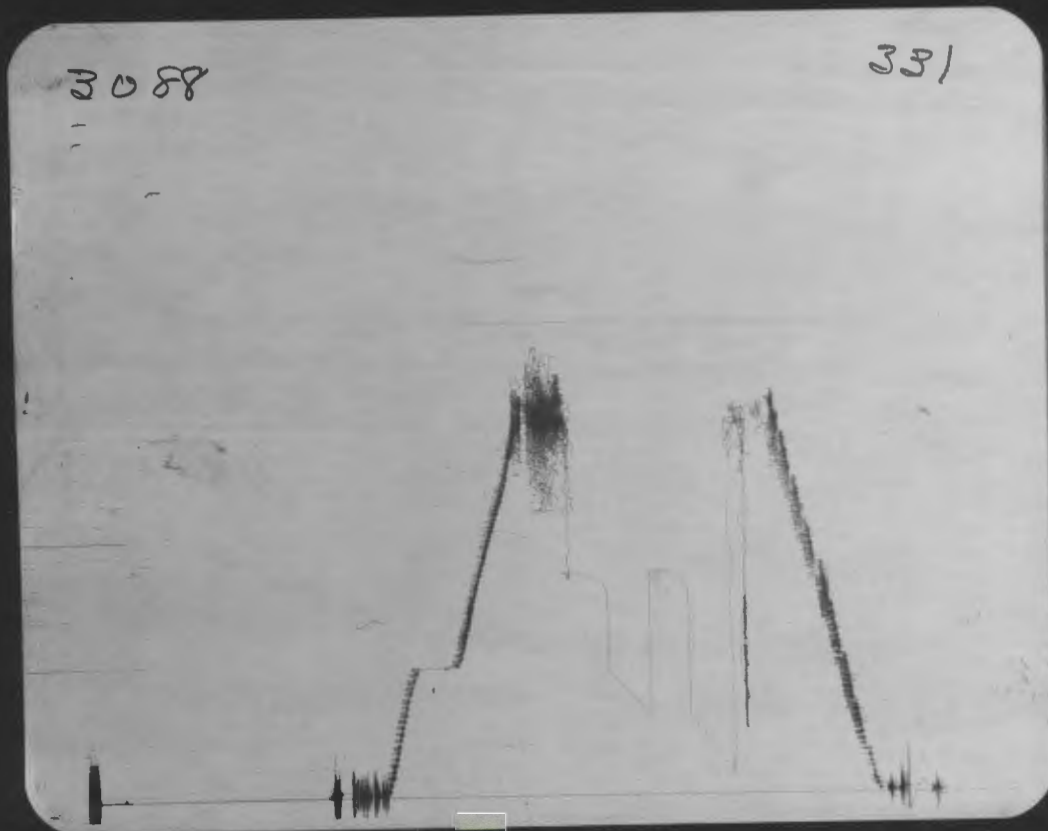
Recovered Feet Of

Remarks

Strong blow thru test.

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

DRILL-STEM TEST DATA

Well Name	Stueckeman	Test No.	4
Well Number	1	Zone Tested	Sand
Company	Imperial Oil Co.	Date	8-20-69
Comp. Rep.	Charley Shank	Tester	Don Fabricius
Contractor	Co tools	Ticket No.	332
Location	14-23-19	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 207 Clock Range 8

Depth 4462 Depth 4547

Initial Hydro Mud Press. 2433 Initial Hydro Mud Press. 2440

Initial Shut-in Press. 1329 Initial Shut-in Press. 1300

Initial Flow Press. 46 Initial Flow Press. 150

Final Flow Press. 293 Final Flow Press. 270

Final Shut-in Press. 1306 Final Shut-in Press. 1300

Final Hydro Mud Press. 2433 Final Hydro Mud Press. 2440

Temperature _____ Tool Open Before I. S. I. 35 Mins.

Mud Weight 10 Viscosity 50 Initial Shut-in 30 Mins.

Fluid Loss 12 Flow Period 30 Mins.

Interval Tested 4467-4516 Final Shut-in 30 Mins.

Top Packer Depth 4467 Surface Choke Size 1 1/4

Bottom Packer Depth 4567 Bottom Choke Size 3/4"

Total Depth 4547 Main Hole Size 7 7/8

Drill Pipe Size 4 3/2 FH Wt. 1660 Rubber Size 6 3/4

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet 495

Recovered 495 Feet Of Muddy Water

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks

Strong blow thru test

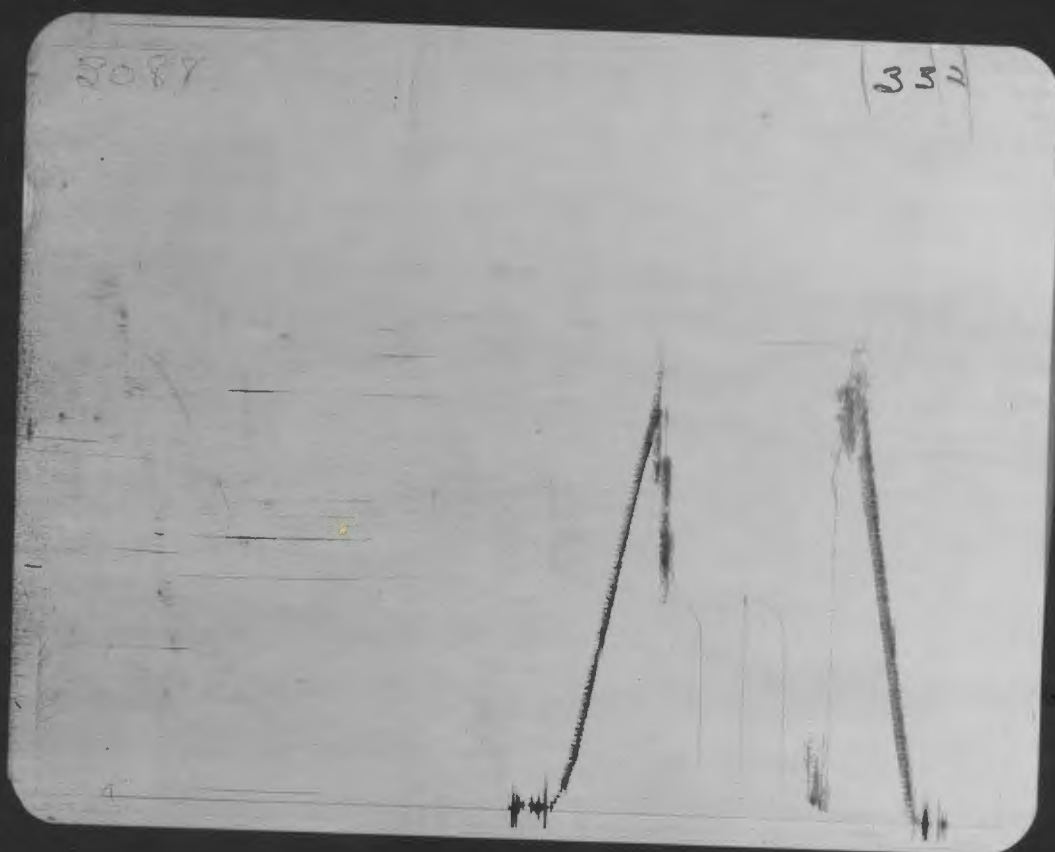
Chart Shows Plugging Action on I.F.

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