ARROW TESTING COMPANY

P. O. BOX 1051 GREAT BEND, KANSAS 67530

DRILL-STEM TEST DATA

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Well Name	Ummel	Test No.	1
Well Number	4	Zone Tested	Ft scott
Company	Palomino Petroleum	Date	7/26/01
Comp. Rep.	R Schreiber	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4010
Location	20-17-24	Elevation	

Recorder No.	3088	Recorder No.	4377
Clock Range	12	Clock Range	12
Depth	4262	Depth	4266
Initial Hydro Mud Press.	2152	Initial Hydro Mud Press.	2151
Initial Shut-in Press.	105	Initial Shut-in Press.	105
Initial Flow Press.	35-47	Initial Flow Press.	35-47
Final Flow Press.	82-94	Final Flow Press.	82-94
Final Shut-in Press.	117	Final Shut-in Press.	117
Final Hydro Mud Press.	2152	Final Hydro Mud Press.	2151
Temperature		Tool Open Before I. S. I.	30 Mins.
Mud Weight	9.4	Viscosity 46	Initial Shut-in 30 Mins.
Fluid Loss	11.8	Flow Period	30 Mins.
Interval Tested	4211-70	Final Shut-in	30 Mins.
Top Packer Depth	4606	Surface Choke Size	1
Bottom Packer Depth	4211	Bottom Choke Size	3/4
Total Depth	4270	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 180 Feet Of Gas in pipe

Recovered 160 Feet Of Slightly gas cut mud

Recovered 20 Feet Of Slightly oil cut mud

Recovered Feet Of

Remarks

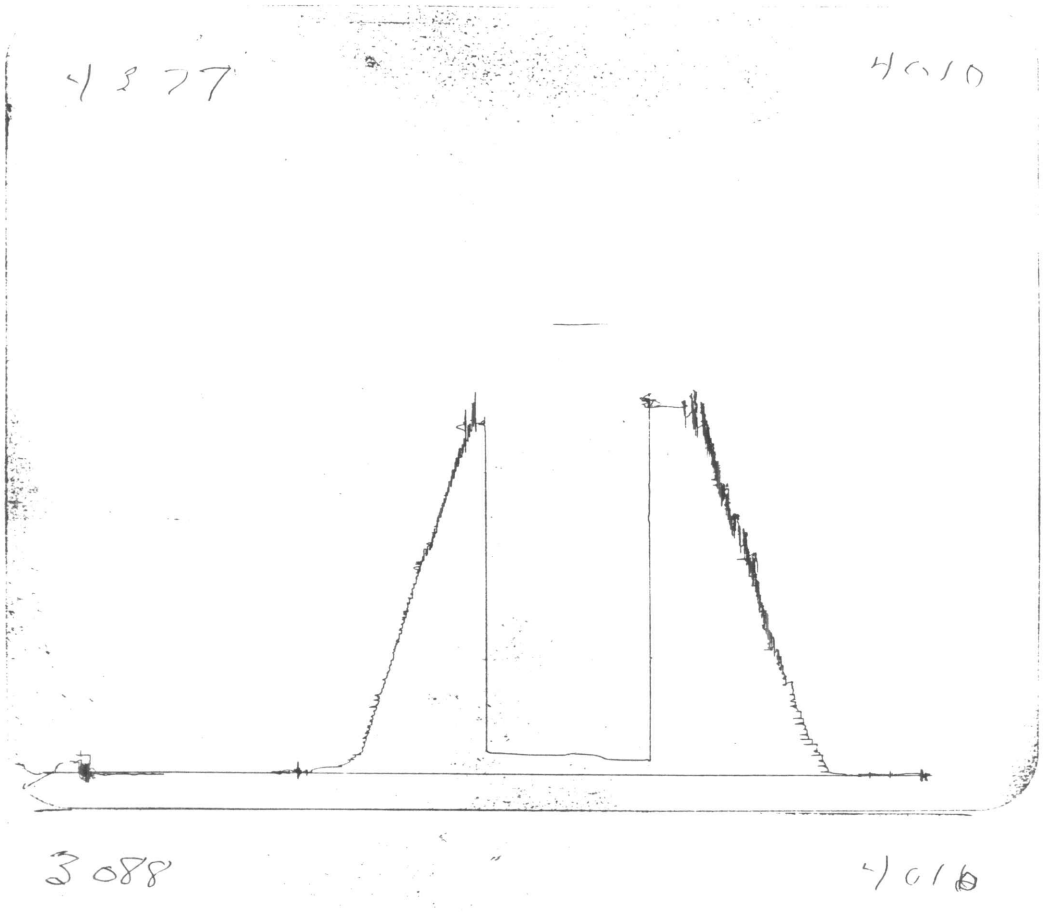
Strong blow decreasing thru-test

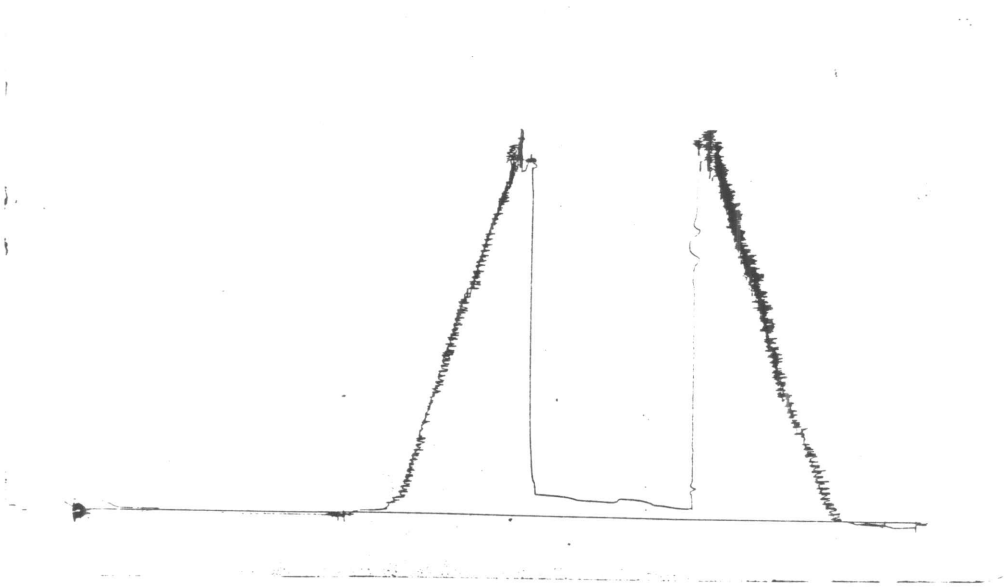
THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood 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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ARROW TESTING COMPANY
P. O. BOX 1051 GREAT BEND, KANSAS 67530

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DRILL-STEM TEST DATA

Well Name	Ummel	Test No.	2
Well Number	4	Zone Tested	Miss
Company	Palomino Petroleum	Date	7/27/01
Comp. Rep.	R Schreiber	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4011
Location	20-17-24	Elevation	

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Recorder No.	3088	Recorder No.	4377
Clock Range	12	Clock Range	12
Depth	4344	Depth	4349
Initial Hydro Mud Press.	2308	Initial Hydro Mud Press.	2310
Initial Shut-in Press.	577	Initial Shut-in Press.	577
Initial Flow Press.	47-47	Initial Flow Press.	47-47
Final Flow Press.	47-47	Final Flow Press.	47-47
Final Shut-in Press.	---	Final Shut-in Press.	---
Final Hydro Mud Press.	2308	Final Hydro Mud Press.	2310
Temperature		Tool Open Before I. S. I.	30 Mins.
Mud Weight	9.3	Initial Shut-in	30 Mins.
Viscosity	47	Flow Period	15 Mins.
Fluid Loss	11.2	Final Shut-in	--- Mins.
Interval Tested	4284-4353	Surface Choke Size	1
Top Packer Depth	4279	Bottom Choke Size	3/4
Bottom Packer Depth	4284	Main Hole Size	7 7/8
Total Depth	4353	Rubber Size	6 3/4
Drill Pipe Size	4 1/2 X H	Wt.	16.60
Drill Collar I. D.		Ft. Run	

Recovery—Total Feet

Recovered 1 Feet Of Free oil on top

Recovered 20 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Remarks

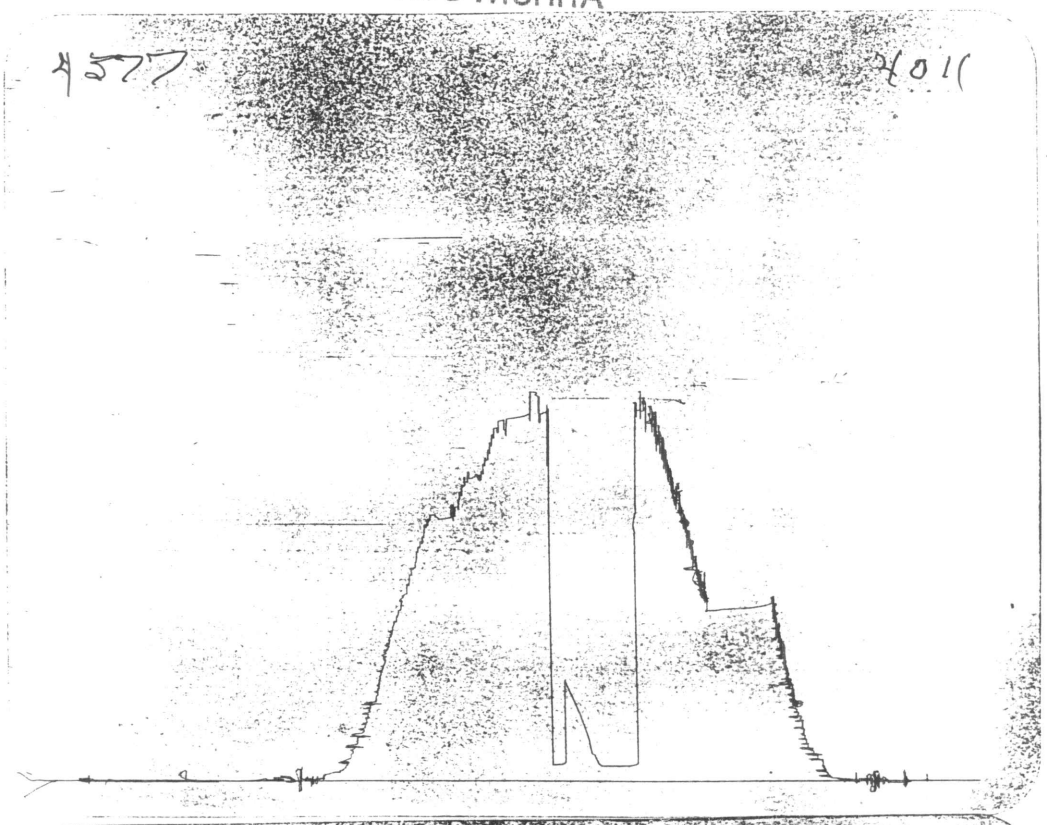
Weak blow dead in 22 min

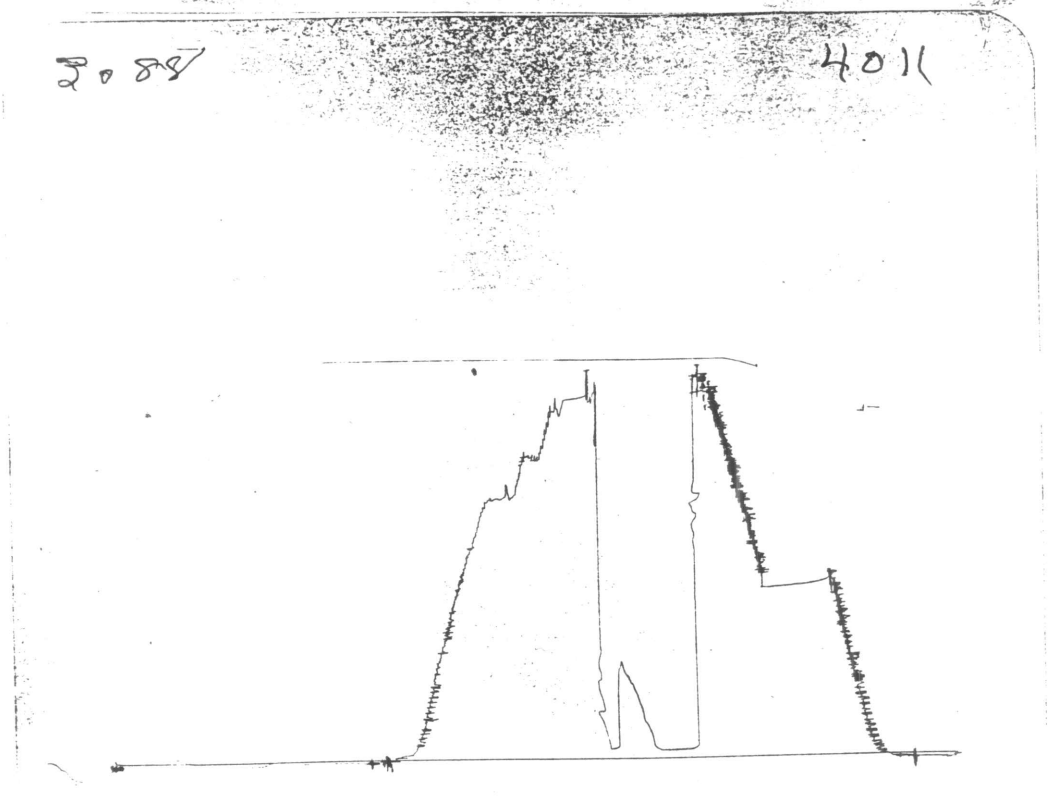
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P. O. BOX 1051 GREAT BEND, KANSAS 67530

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DRILL-STEM TEST DATA

Well Name	Ummel	Test No.	3
Well Number	4	Zone Tested	Miss
Company	Palomino Petroleum	Date	7/28/01
Comp. Rep.	R Schreiber	Tester	Don Fabricius
Contractor	A & A Drlg	Ticket No.	4012
Location	20-17-24	Elevation	

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Recorder No.	3088	Recorder No.	4377
Clock Range	12	Clock Range	12
Depth	4367	Depth	4371
Initial Hydro Mud Press.	2208	Initial Hydro Mud Press.	2208
Initial Shut-in Press.	1301	Initial Shut-in Press.	1301
Initial Flow Press.	105-247	Initial Flow Press.	105-247
Final Flow Press.	294-388	Final Flow Press.	294-388
Final Shut-in Press.	1289	Final Shut-in Press.	1289
Final Hydro Mud Press.	2208	Final Hydro Mud Press.	2208
Temperature		Tool Open Before I. S. I.	30 Mins.
Mud Weight	9.2	Viscosity 47	Initial Shut-in 30 Mins.
Fluid Loss	10.4	Flow Period	30 Mins.
Interval Tested	4284-4375	Final Shut-in	30 Mins.
Top Packer Depth	4279	Surface Choke Size	1
Bottom Packer Depth	4284	Bottom Choke Size	3/4
Total Depth	4375	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 665 Feet Of Muddy water with a trace of oil on top

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Remarks

Strong blow thru-test

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