

15-185-23180

21-418-13W

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

DRILL-STEM TEST DATA

Well Name <u>Munz</u>	Test No. <u>1</u>
Well Number <u>1</u>	Zone Tested <u>KC</u>
Company <u>Palomino Petroleum Inc.</u>	Date <u>2/18/03</u>
Comp. Rep. <u>R. Schreiber</u>	Tester <u>Don Fabricius</u>
Contractor <u>Shields Drly</u>	Ticket No. <u>4081</u>
Location <u>27-21-13</u>	Elevation _____

RECEIVED**APR 14 2003****KCC WICHITA**

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3417</u>		Depth <u>3422</u>	
Initial Hydro Mud Press. <u>1704</u>		Initial Hydro Mud Press. <u>1704</u>	
Initial Shut-in Press. <u>742</u>		Initial Shut-in Press. <u>742</u>	
Initial Flow Press. <u>94-94</u>		Initial Flow Press. <u>94-94</u>	
Final Flow Press. <u>117-117</u>		Final Flow Press. <u>117-117</u>	
Final Shut-in Press. <u>648</u>		Final Shut-in Press. <u>648</u>	
Final Hydro Mud Press. <u>1692</u>		Final Hydro Mud Press. <u>1692</u>	
Temperature _____		Tool Open Before I. S. <u>30</u>	Mins.
Mud Weight <u>9.2</u>	Viscosity <u>45.0</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>8.8</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3325-3426</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth <u>3320</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3325</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3426</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 XH</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>70</u>	Feet Of <u>Mud with specks of oil on top</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		

Remarks

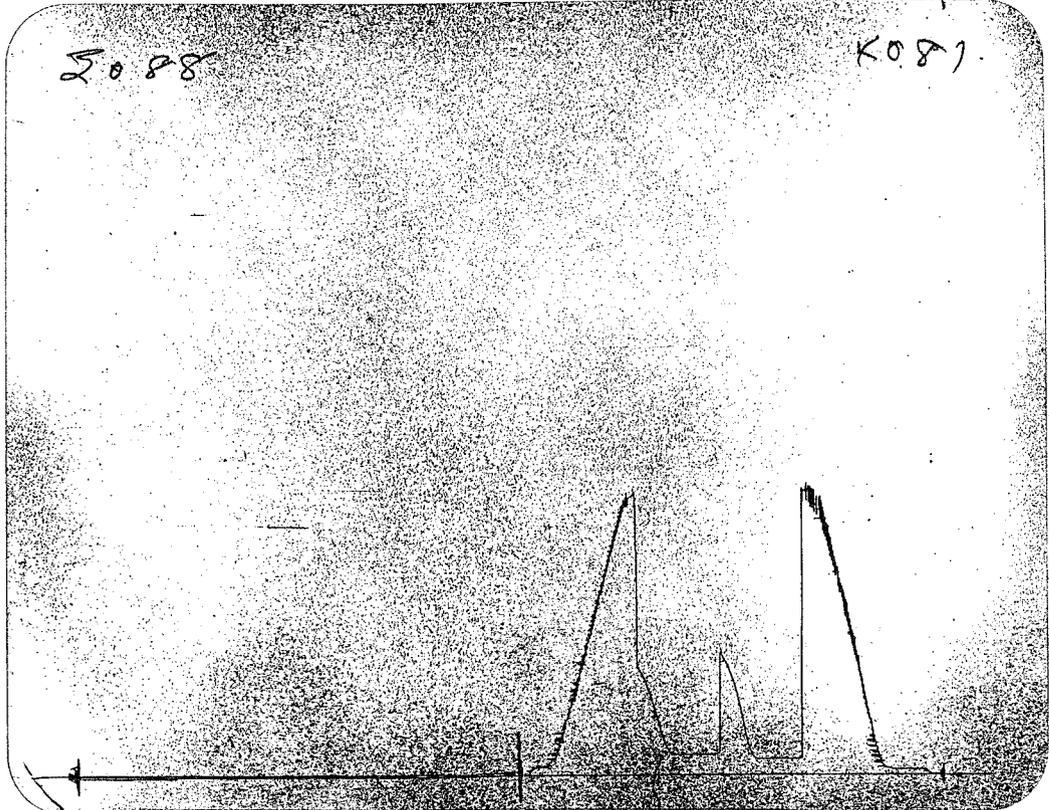
Very weak blow thru test

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.

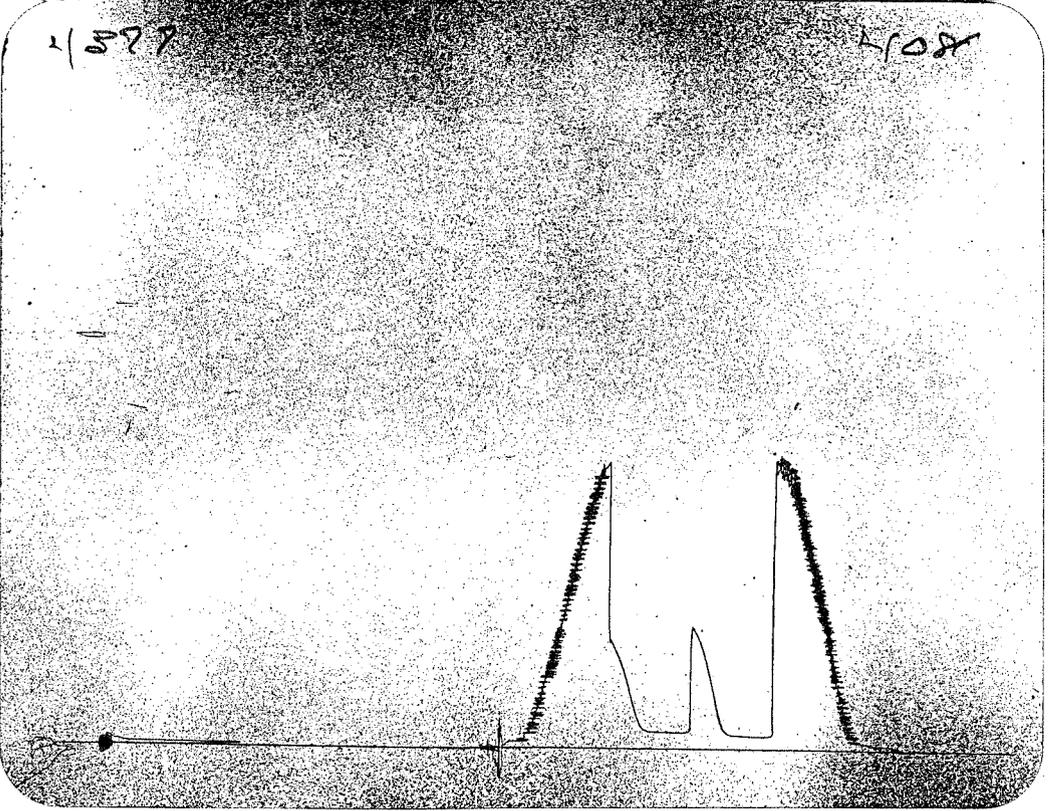
2088

K087



2087

K087



DRILL-STEM TEST DATA

Well Name <u>Munz</u>	Test No. <u>2</u>
Well Number <u>1</u>	Zone Tested <u>KC</u>
Company <u>Palomino Petroleum Inc.</u>	Date <u>2/19/03</u>
Comp. Rep. <u>R Schreiber</u>	Tester <u>Don Fabricius</u>
Contractor <u>Shields Drly</u>	Ticket No. <u>4082</u>
Location <u>27-21-13</u>	Elevation _____

RECEIVED
APR 14 2003
KCC WICHITA

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3541</u>		Depth <u>3545</u>	
Initial Hydro Mud Press. <u>1842</u>		Initial Hydro Mud Press. <u>1842</u>	
Initial Shut-in Press. <u>282</u>		Initial Shut-in Press. <u>282</u>	
Initial Flow Press. <u>82-105</u>		Initial Flow Press. <u>82-105</u>	
Final Flow Press. <u>120-130</u>		Final Flow Press. <u>120-130</u>	
Final Shut-in Press. <u>282</u>		Final Shut-in Press. <u>282</u>	
Final Hydro Mud Press. <u>1842</u>		Final Hydro Mud Press. <u>1842</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.3</u>	Viscosity <u>45.0</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>10.2</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3442-3549</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth <u>3437</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3442</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3549</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 XH</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		

Recovery—Total Feet _____

Recovered 45 Feet Of Mud with specks of oil

Recovered 145 Feet Of Oil & Gas cut mud - 45% Gas 25% oil

Recovered _____ Feet Of 30% mud

Recovered 200 Feet Of Gas in pipe

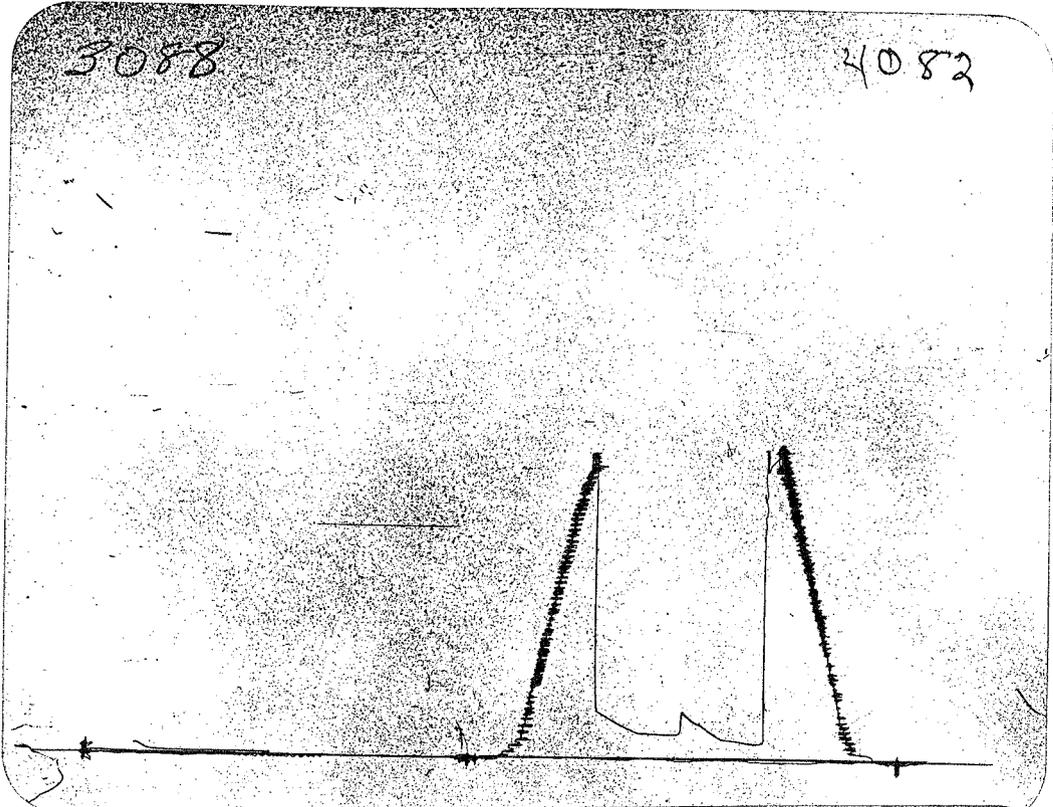
Remarks
Strong blow-thru test

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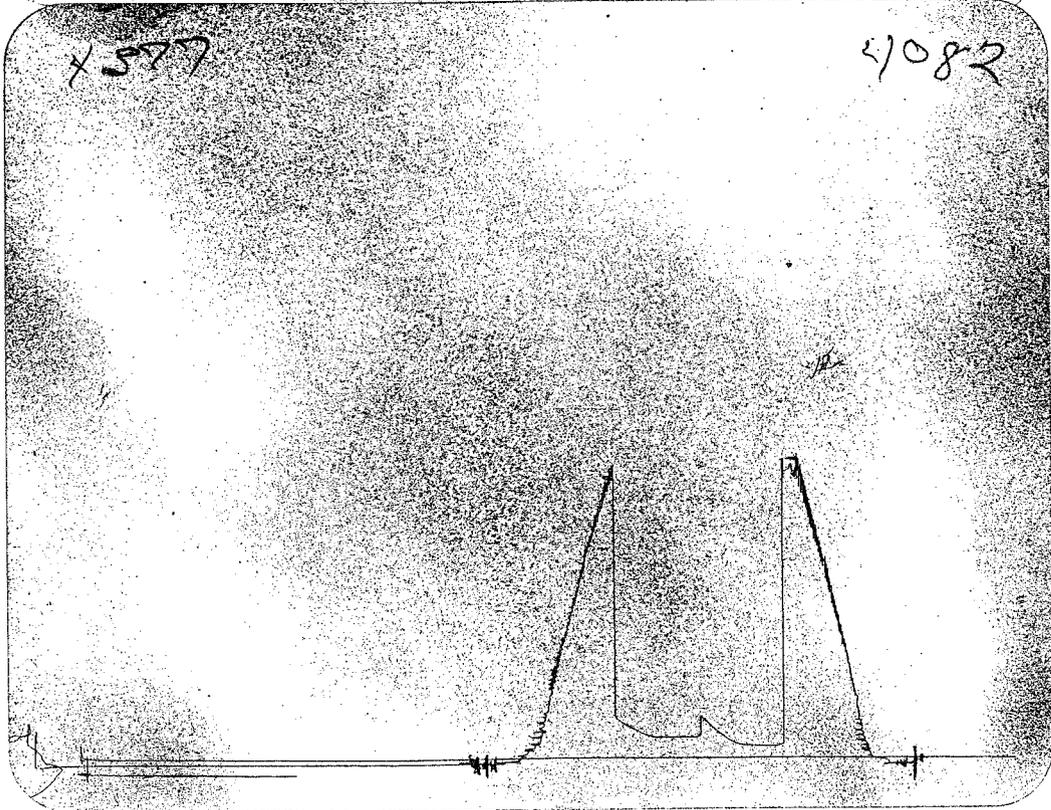
3088

4082



4577

4082



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

DRILL-STEM TEST DATA

Well Name <u>Munz</u>	Test No. <u>3</u>
Well Number <u>1</u>	Zone Tested <u>Viola</u>
Company <u>Palomino Petroleum Inc.</u>	Date <u>2/20/03</u>
Comp. Rep. <u>R Schreiber</u>	Tester <u>Don Fabricius</u>
Contractor <u>Shields Drly</u>	Ticket No. <u>4083</u>
Location <u>27-21-13</u>	Elevation _____

RECEIVED
APR 14 2003
KCC WICHITA

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3611</u>		Depth <u>3615</u>	
Initial Hydro Mud Press. <u>1831</u>		Initial Hydro Mud Press. <u>1836</u>	
Initial Shut-in Press. <u>82</u>		Initial Shut-in Press. <u>82</u>	
Initial Flow Press. <u>70-70</u>		Initial Flow Press. <u>70-70</u>	
Final Flow Press. <u>70-70</u>		Final Flow Press. <u>70-70</u>	
Final Shut-in Press. <u>94</u>		Final Shut-in Press. <u>94</u>	
Final Hydro Mud Press. <u>1831</u>		Final Hydro Mud Press. <u>1856</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.3</u>	Viscosity <u>45.0</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>10</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3530-3619</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth <u>3525</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3530</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3619</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 XH</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>45</u>	Feet Of <u>Mud</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		

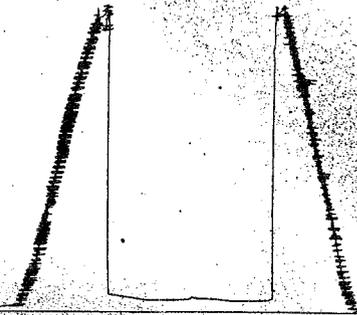
Remarks
Weak building to fair blow thru-test

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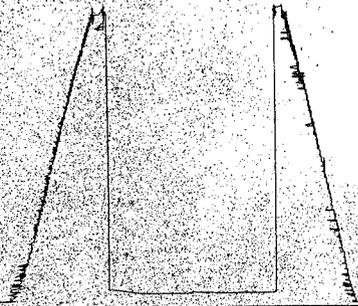
4377

4083



5088

4083



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

DRILL-STEM TEST DATA

Well Name <u>Munz</u>	Test No. <u>4</u>
Well Number <u>1</u>	Zone Tested <u>Arb</u>
Company <u>Palomino Petroleum Inc.</u>	Date <u>2/20/03</u>
Comp. Rep. <u>R Schreiber</u>	Tester <u>Don Fabricius</u>
Contractor <u>Shields Drly</u>	Ticket No. <u>4084</u>
Location <u>27-21-13</u>	Elevation _____

RECEIVED

APR 14 2003

KCC WICHITA

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12

Depth 3659 Depth 3663

Initial Hydro Mud Press. 1808 Initial Hydro Mud Press. 1810

Initial Shut-in Press. 199 Initial Shut-in Press. 199

Initial Flow Press. 42-82 Initial Flow Press. 42-82

Final Flow Press. 82-105 Final Flow Press. 82-105

Final Shut-in Press. 176 Final Shut-in Press. 176

Final Hydro Mud Press. 1808 Final Hydro Mud Press. 1810

Temperature _____ Tool Open Before I. S. 1.30 Mins.

Mud Weight 9.1 Viscosity 68.0 Initial Shut-in 30 Mins.

Fluid Loss 11.2 Flow Period 30 Mins.

Interval Tested 3658-67 Final Shut-in 30 Mins.

Top Packer Depth 3653 Surface Choke Size 1

Bottom Packer Depth 3658 Bottom Choke Size 3/4

Total Depth 3667 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 XH Wt. 16.60 Rubber Size 6 3/4

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet _____

Recovered 1260 Feet Of Gas in pipe

Recovered 230 Feet Of Muddy Oil

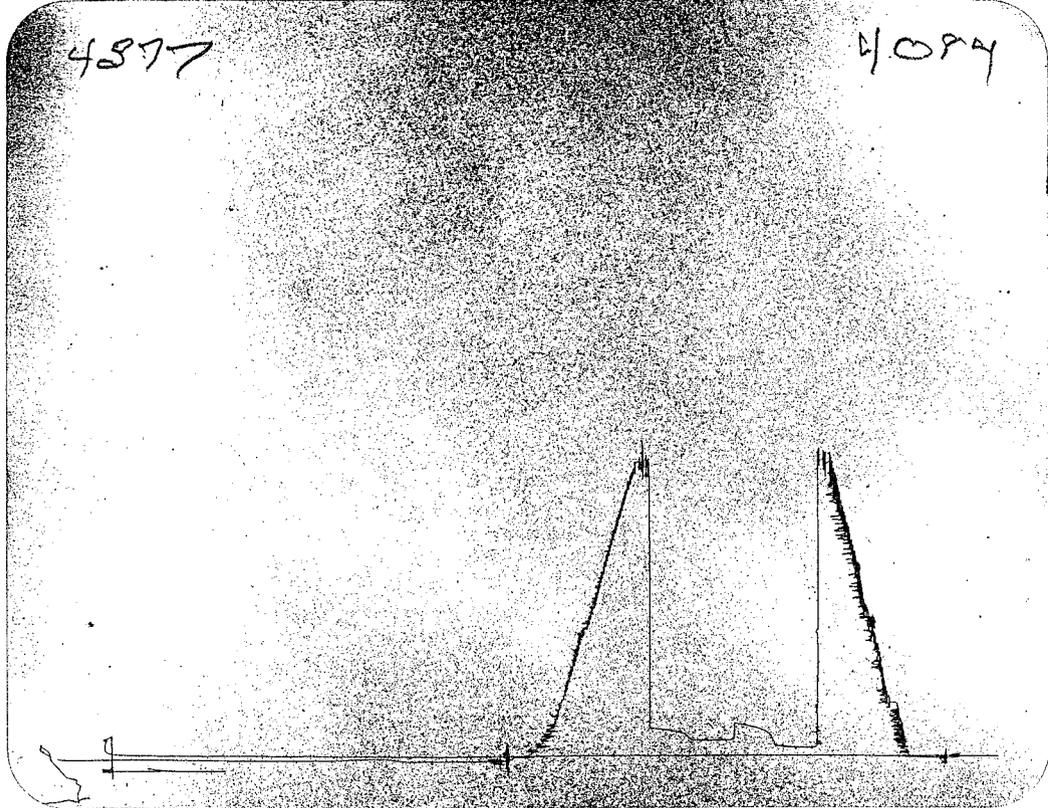
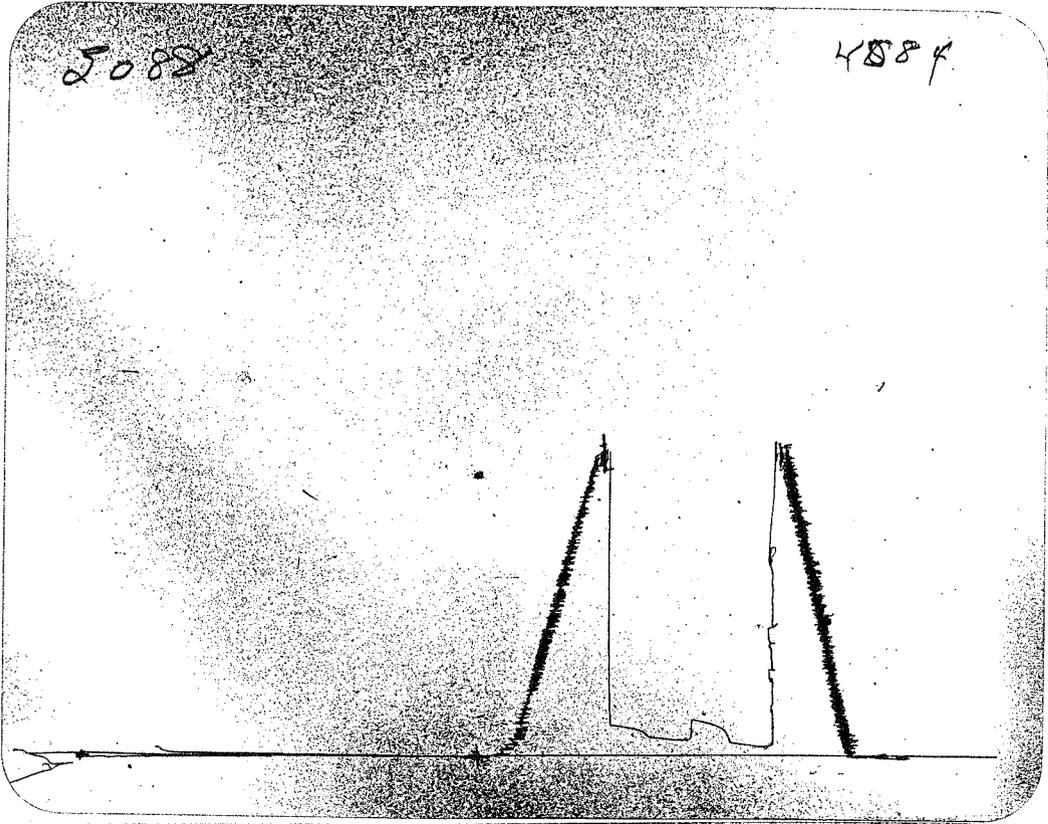
Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks
Strong blow thru-test

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DRILL-STEM TEST DATA

Well Name Munz	Test No. 5
Well Number 1	Zone Tested Arb
Company Palomino Petroleum Inc.	Date 2/21/03
Comp. Rep. R Schreiber	Tester Don Fabricius
Contractor Shields Drly	Ticket No. 4085
Location 27-21-13	Elevation

RECEIVED
APR 14 2003
KCC WICHITA

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>3677</u>		Depth <u>3687</u>	
Initial Hydro Mud Press. <u>1854</u>		Initial Hydro Mud Press. <u>1855</u>	
Initial Shut-in Press. <u>1013</u>		Initial Shut-in Press. <u>1014</u>	
Initial Flow Press. <u>176-258</u>		Initial Flow Press. <u>176-258</u>	
Final Flow Press. <u>317-365</u>		Final Flow Press. <u>317-365</u>	
Final Shut-in Press. <u>990</u>		Final Shut-in Press. <u>990</u>	
Final Hydro Mud Press. <u>1854</u>		Final Hydro Mud Press. <u>1855</u>	
Temperature _____		Tool Open Before I. S. <u>1.30</u>	Mins.
Mud Weight <u>9.0</u>	Viscosity <u>47.0</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>10.6</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>3658-85</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth <u>3653</u>		Surface Choke Size <u>1</u>	
Bottom Packer Depth <u>3658</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>3685</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 XH</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet _____

Recovered 600 Feet Of Clean gassy oil

Recovered 420 Feet Of Froggy oil

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

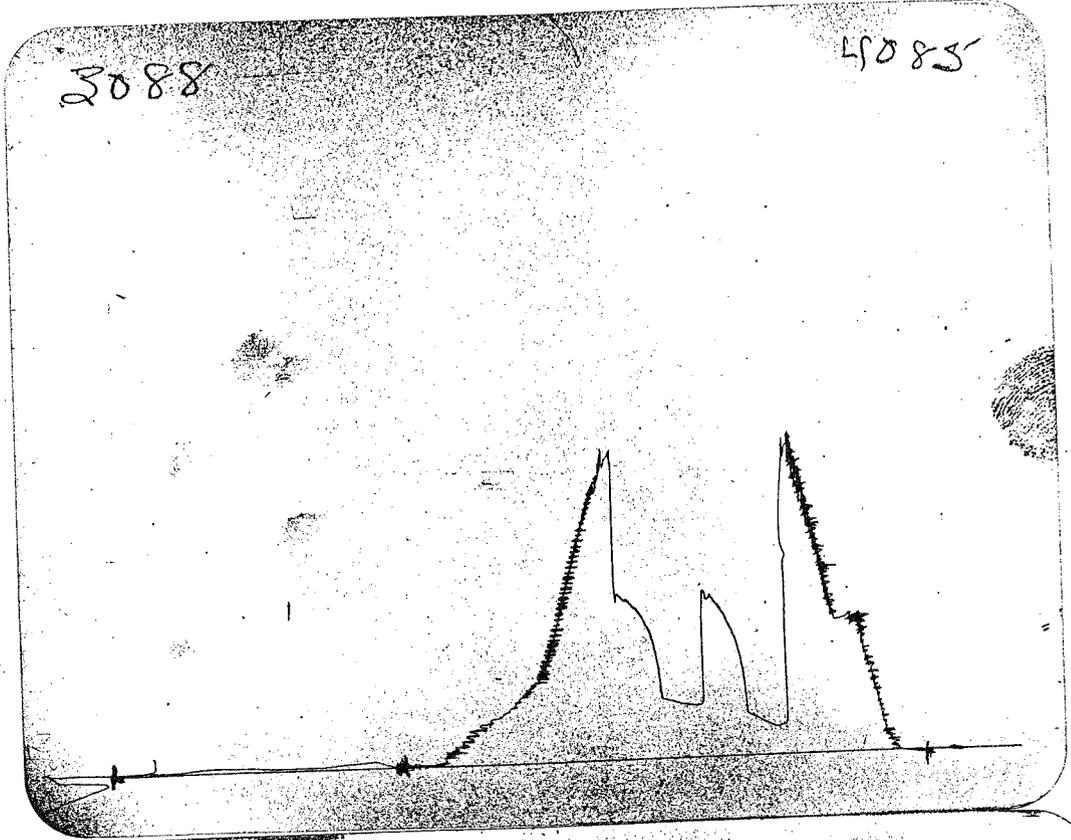
Remarks
Strong blow thru-test Gas to surface in
21 min T.S.T.M

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3088

4085



4077

4085

