

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

**DRILL-STEM TEST DATA**

Well Name            Stoppel	Test No.            1
Well Number        1	Zone Tested        Tark
Company            American Drilling Corporation	Date                2-7-70
Comp. Rep.        Toby Elster	Tester             Don Fabricius
Contractor        Co tools	Ticket No.        430
Location           17-14-11	Elevation          1696 GL

Recorder No.    3088	Clock Range    12	Recorder No.    207	Clock Range    8
Depth           2095		Depth           2124	
Initial Hydro Mud Press.    1169		Initial Hydro Mud Press.    1150	
Initial Shut-in Press.        739		Initial Shut-in Press.        730	
Initial Flow Press.            23		Initial Flow Press.            0	
Final Flow Press.             23		Final Flow Press.             0	
Final Shut-in Press.         727		Final Shut-in Press.         730	
Final Hydro Mud Press.      1169		Final Hydro Mud Press.      1150	
Temperature _____		Tool Open Before I. S. I.    30	Mins.
Mud Weight    10.4	Viscosity    45	Initial Shut-in                60	Mins.
Fluid Loss        10		Flow Period                  90	Mins.
Interval Tested               2105-24		Final Shut-in                 60	Mins.
Top Packer Depth            2100		Surface Choke Size            1"	
Bottom Packer Depth        2105		Bottom Choke Size            3/4"	
Total Depth                2124		Main Hole Size                7 7/8"	
Drill Pipe Size _____ Wt. _____		Rubber Size                  6 3/4	
Drill Collar I. D. _____ Ft. Run _____			
Recovery—Total Feet        30			
Recovered        30	Feet Of    Mud		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		

Remarks

\_\_\_\_\_ Strong blow thru test Gas to surface in 90 minutes. T.S.T.M.

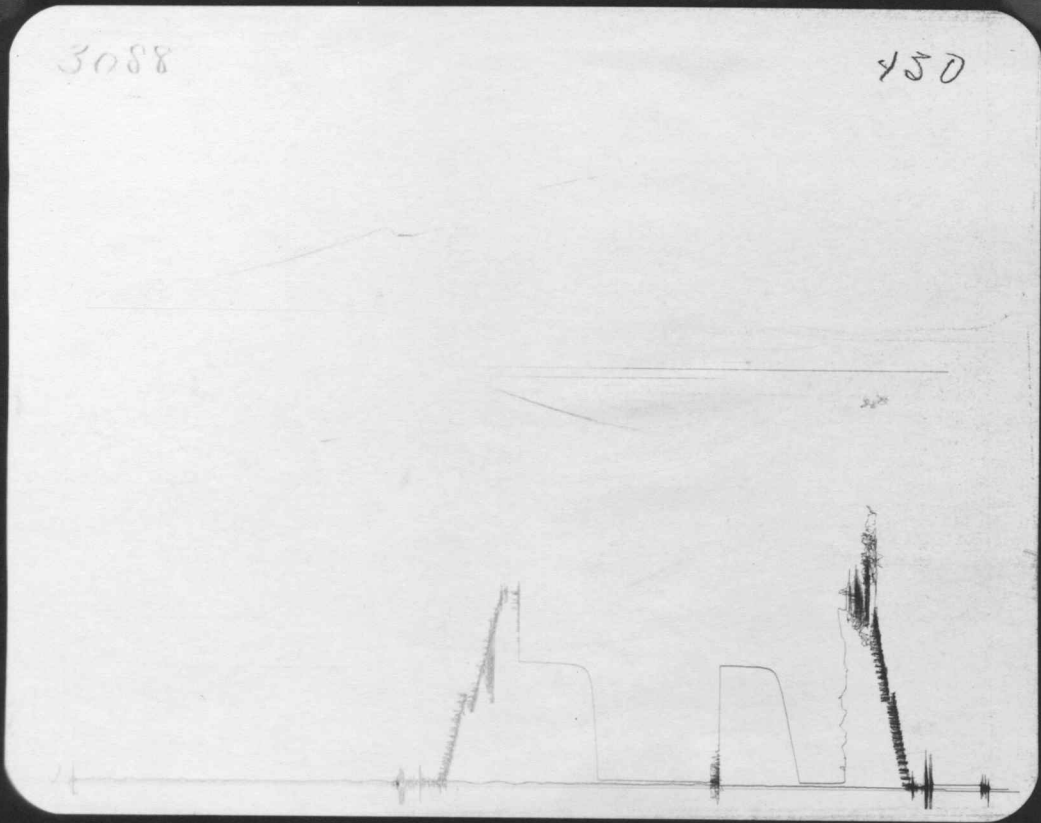
**THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS:** It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood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

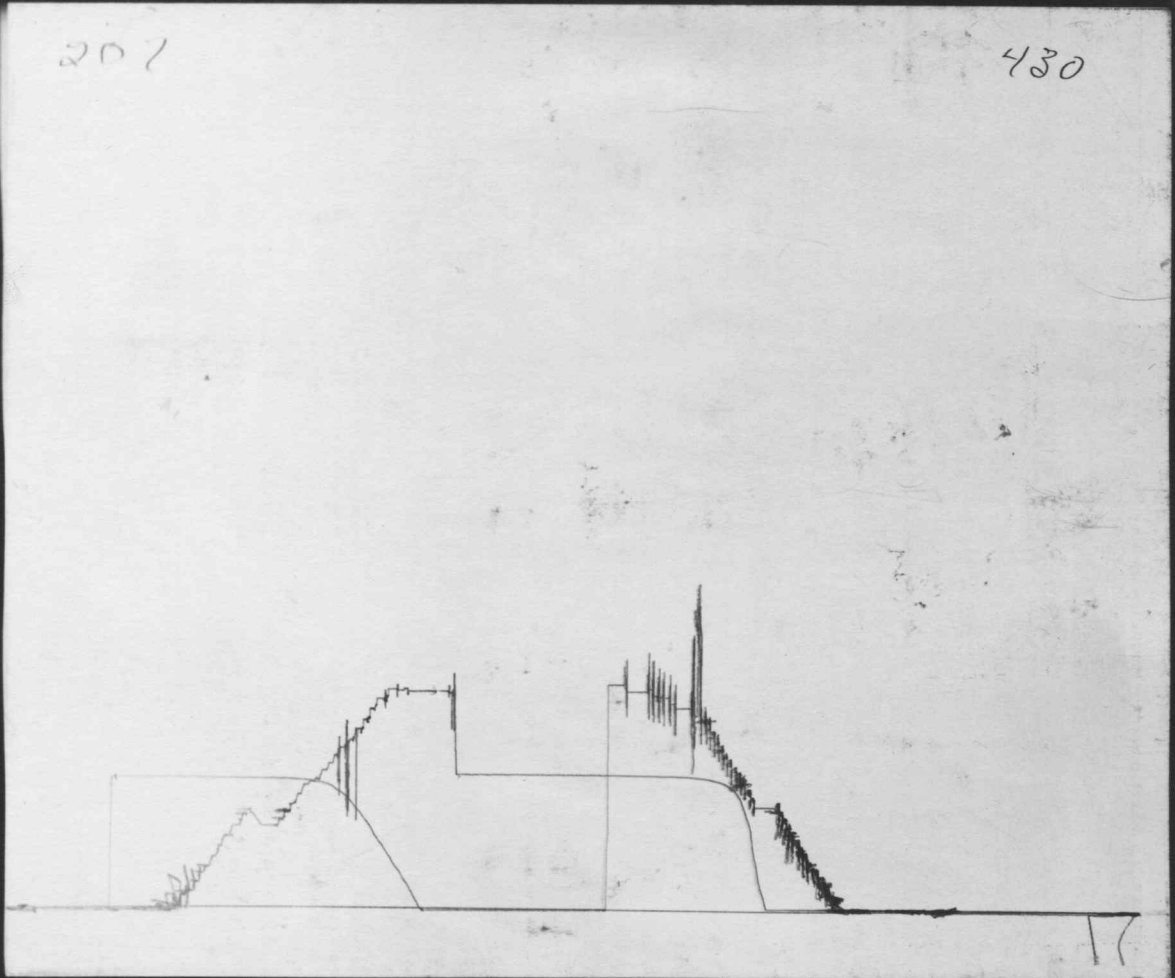
3088

450



207

430



17

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

**DRILL-STEM TEST DATA**

Well Name <u>Stoppel</u>	Test No. <u>2</u>
Well Number <u>1</u>	Zone Tested <u>Tark</u>
Company <u>American Drilling Corporation</u>	Date <u>2-7-70</u>
Comp. Rep. <u>Toby Elster</u>	Tester <u>Don Fabricius</u>
Contractor <u>Co tools</u>	Ticket No. <u>431</u>
Location <u>1-17-14</u>	Elevation <u>1696 GL.</u>

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

Depth 2115                      Depth 2153

Initial Hydro Mud Press. 1176      Initial Hydro Mud Press. 1140

Initial Shut-in Press. 140              Initial Shut-in Press. 70

Initial Flow Press. 46                      Initial Flow Press. 0

Final Flow Press. 46                      Final Flow Press. 0

Final Shut-in Press. 117                  Final Shut-in Press. 60

Final Hydro Mud Press. 1176          Final Hydro Mud Press. 1140

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

Mud Weight 10      Viscosity 43      Initial Shut-in 60 Mins.

Fluid Loss 10                      Flow Period 90 Mins.

Interval Tested 2125-53                  Final Shut-in 60 Mins.

Top Packer Depth 2120                  Surface Choke Size 1"

Bottom Packer Depth 2125                  Bottom Choke Size 3/4"

Total Depth 2153                      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 20

Recovered 20 Feet Of Mud

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Remarks

Weak blow dead in 80 minutes.

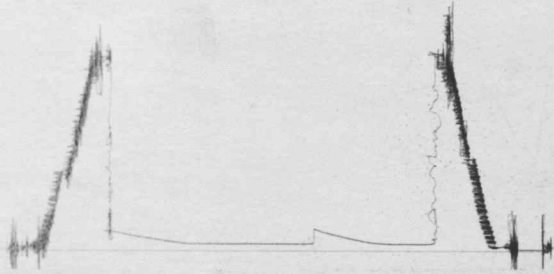
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By \_\_\_\_\_  
*Owner, Operator or his Agent*

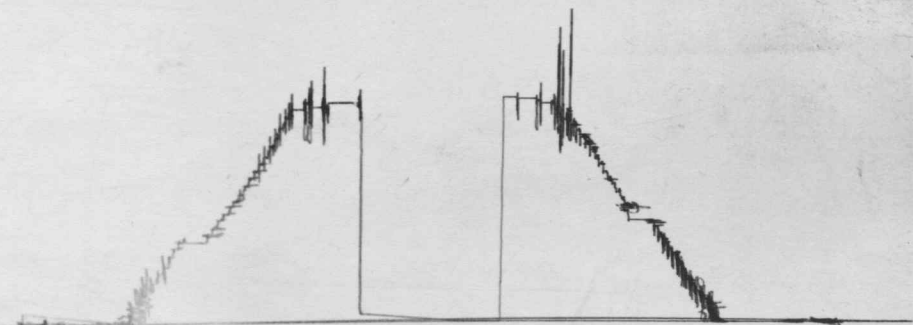
3088

431



807

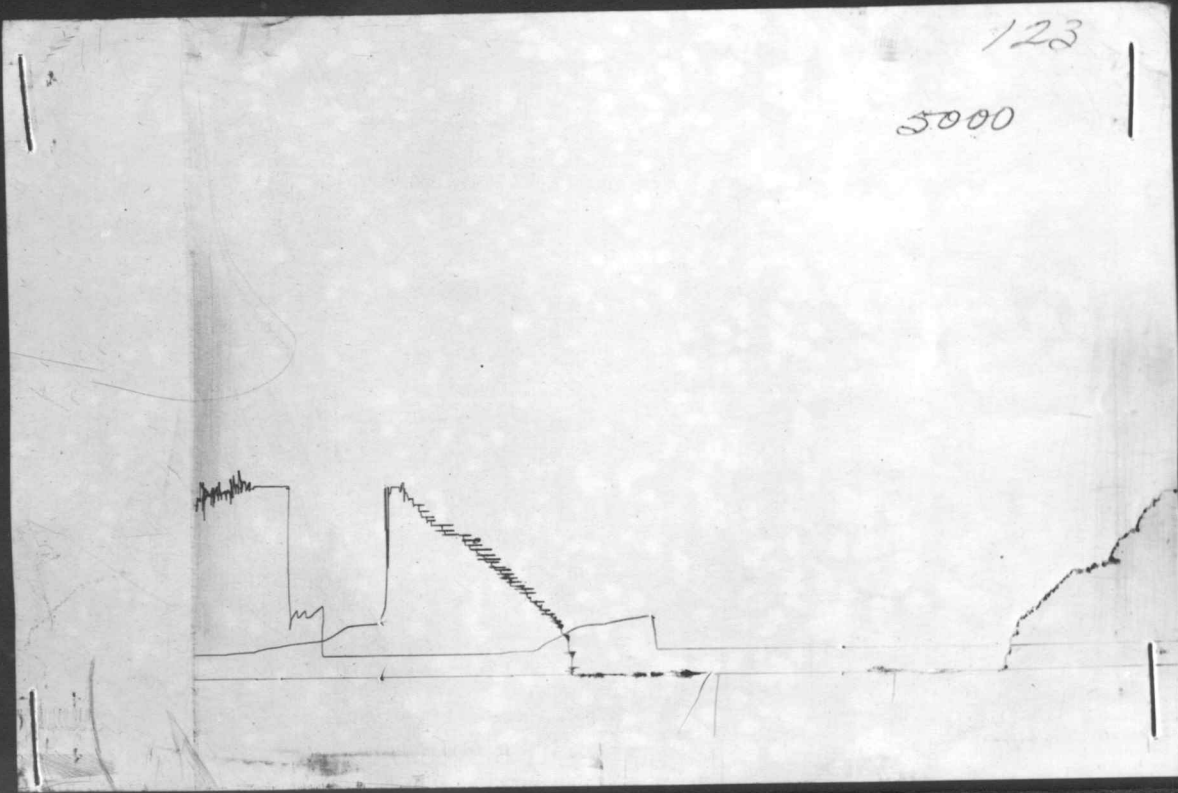
431





Date 2-8-70

Ticket No. 123



Company AMERICAN DRIG. CO. Contractor SAME  
 Well No. 1 Lease STOPPEL County RUSSELL Sec. 17 Rg. 14 Twp. 11  
 Test No. 3 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 XH  
 Interval Tested From 2431 To 2466 Depth of Well 2466 Size Choke 1/2  
 Fluid Recovered In LEXWEIGHT Temp. 96 Elev.  
 Initial Hyd. 1410 P.S.I. Final Hyd. 1410 P.S.I.  
 First Initial Flow Pressure 85 P.S.I. Opened Pool 11:56 A.M. ###  
 First Final Flow Pressure 85 P.S.I. First Flow Pres. 30 Min.  
 Initial Closed-in Pressure 360 P.S.I. Initial Closed-in Pres. 75 Min.  
 Second Initial Flow Pressure 130 P.S.I. Second Flow Pres. 120 Min.  
 Second Final Flow Pressure 130 P.S.I. Final Closed-in Pres. 75 Min.  
 Final Closed-in Pressure 360 P.S.I.  
 Blow STRONG BLOW THRU-OUT TEST.

Recovery 1175 FT., . GAS IN PIPE.  
 65 FT. OIL # SPECK & GAS OUT MUD.

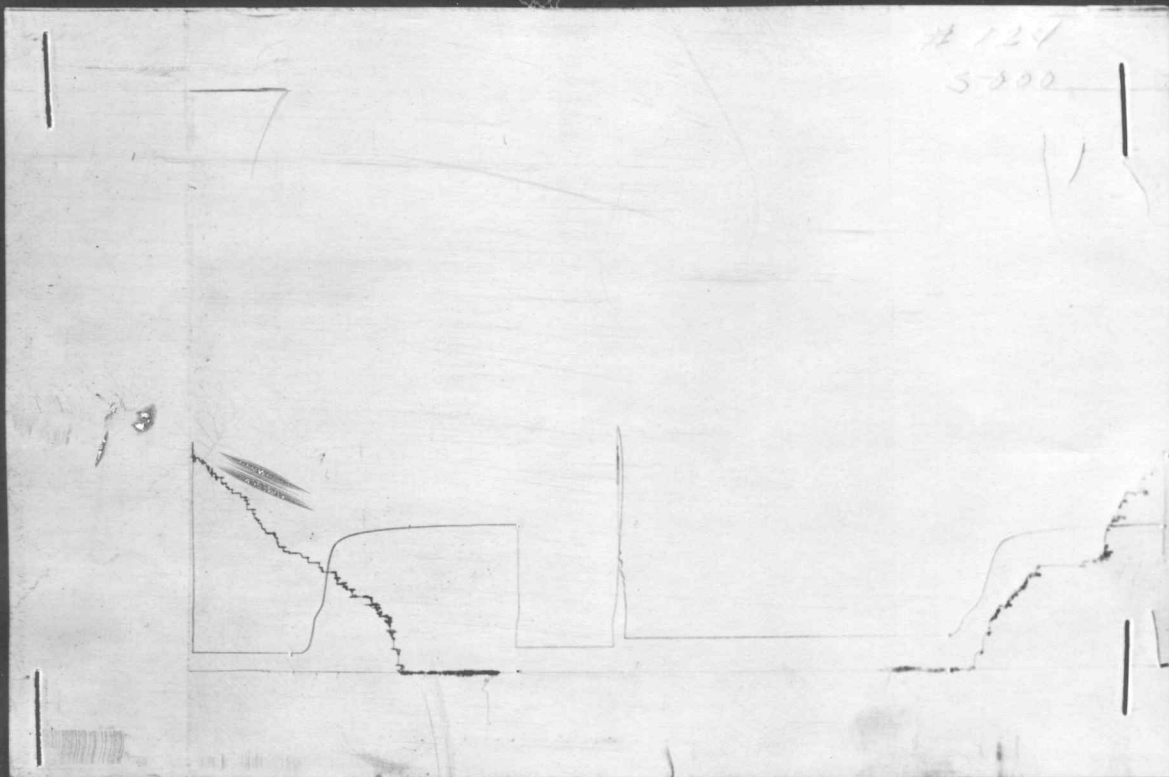
Remarks

Approved By TOBY ELSTER Tester ED PHILBERN



Date 2-10-70

Ticket No. 124



AMERICAN DRIG. CO.

AMERICAN DRIG. CO.

WELL NO. 1 STOFFEL RUSSELL 17 R. 14 Twp 11

4 7 7/8 6 3/4 Drill Pipe Size 4 1/2 IN.

2807 2838 2838 Size Choke 1/2

FLEXWEIGHT 100 Elev

1510 1510 PSI

70 7:26 A.M. #W

70 30 Min

990 60 Min

160 120 Min

160 60 Min

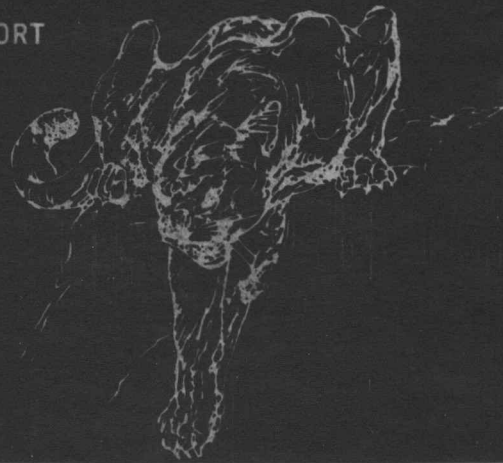
990

WEAK TO FAIR BLOW THRU-OUT TEST.

120 FT. THIN WATERY DRIG. MUD.

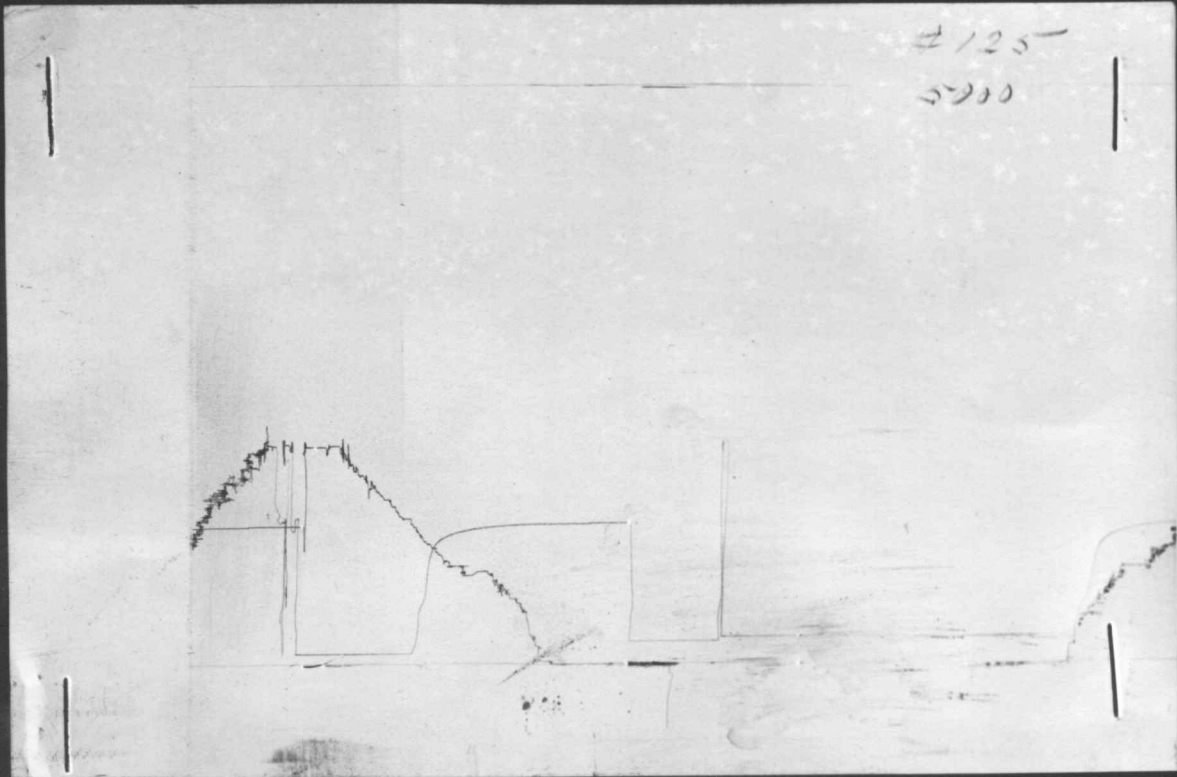
TOBY BLSTER

ED PHILBERN



Date 2-11-70

Ticket No. 125



Company AMERICAN DRLG. CO. Contractor AMERICAN DRLG. CO.

Well No. 1 Lease STOPPEL County RUSSELL Sec. 17 Rg. 14 Twp. 11

Test No. 5 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 XH.

Interval Tested From 2880 To 2892 Depth of Well 2892 Size Choke 1/2

Fluid Recovered In FLEXWEIGHT Temp. 114 Elev. \_\_\_\_\_

Initial Hyd. 1600 P.S.I. Final Hyd. 1600 P.S.I.

First Initial Flow Pressure 30 P.S.I. Opened Tool 1:05 A.M. P###

First Final Flow Pressure 30 P.S.I. First Flow Pres. 30 Min.

Initial Closed-in Pressure 990 P.S.I. Initial Closed-in Pres. 60 Min.

Second Initial Flow Pressure 110 P.S.I. Second Flow Pres. #100 120 Min.

Second Final Flow Pressure 110 P.S.I. Final Closed in Pres. 60 Min.

Final Closed-in Pressure 990 P.S.I.

Blow WEAK STEADY BLOW THRU-OUT TEST.

Recovery 95 FT. THIN WATERY DRLG. MUD.

Remarks \_\_\_\_\_

Approved By TOBY ELSTER Tester ED PHILBERN