



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Monarch Oil & Gas Company Lease & Well No. Lauterbach #1  
Elevation 1704 Kelly Bushings Formation Mississippian Effective Pay 21 Ft. Ticket No. 10837  
Date 6-21-68 Sec. 20 Twp. 30 Range 9 County Kingman State Kansas  
Test Approved by Roger McCoy Western Representative Leon Elmore

Formation Test Not 1 O.K. X Misrun \_\_\_\_\_ Interval Tested From 4368' to 4389' Total Depth 4389'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged Yes X No Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No  
Packer Depth 4368 Ft. Size 6 3/4 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Straddle Yes \_\_\_\_\_ No X Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2"OD Tool Jt. Size 4 1/2"FH Anchor Length 21 Ft. Size 5 1/2"OD  
RECORDERS Depth 4382 Ft. Clock No. 6897 Depth 4385 Ft. Clock No. 6799  
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ ~~Inside~~ Outside Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ ~~Inside~~ Outside  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Inside~~ Outside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Inside~~ Outside

Time Set Packer 11:40 A.M.  
Tool Open I.F.P. From 11:41 M. to 11:56A.M. Hr. 15 Min. From (B) 31 P.S.I. To (C) 26 P.S.I.  
Tool Closed I.C.I.P. From 11:56 M. to 12:26P.M. Hr. 30 Min. (D) 509 P.S.I.  
Tool Open F.F.P. From 12:26 M. to 2:26P.M. 2 Hr. Min. From (E) 31 P.S.I. To (F) 31 P.S.I.  
Tool Closed F.C.I.P. From 2:26 M. to 2:56 M. Hr. 30 Min. (G) 643 P.S.I.  
Initial Hydrostatic Pressure (A) 2358 P.S.I. Final Hydrostatic Pressure (H) 2321 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Strong - thurout Bottom Choke Size 3/4 In.  
Did Well Flow Yes X No \_\_\_\_\_ Recovery Total Ft. 95 feet mud with spots of oil - 3800 feet gas in pipe.

Reversed Out Yes X No \_\_\_\_\_ Mud Type Starch Viscosity 48 Weight 9.6 Water Loss 9.2 cc. Maximum Temp. 131 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 4353 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 36 ft.

Remarks Open tool for initial flow - weak blow - flush in 4 minutes - strong blow



**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 6-21-68

Test Ticket No. 10837

Recorder No. 3085

Capacity 4500 Location 4382 Ft.

Clock No. 6897

Elevation 1704 Kelly Bushings Well Temperature 131 °F

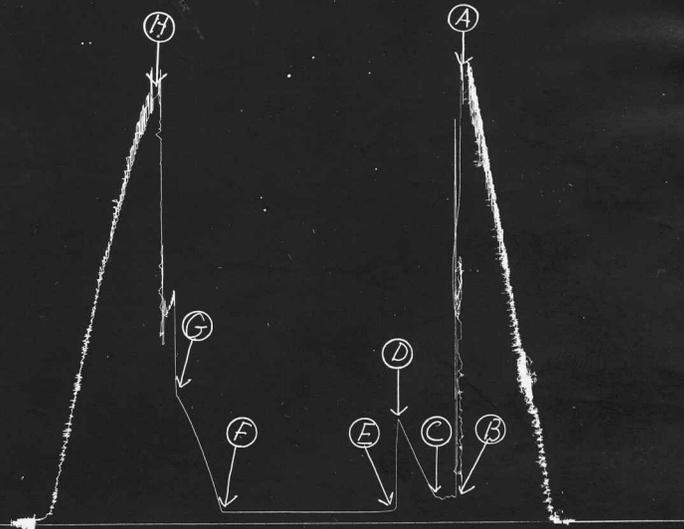
| Point                          | Pressure           |                            | Time Given        | Time Computed    |
|--------------------------------|--------------------|----------------------------|-------------------|------------------|
| A Initial Hydrostatic Mud      | <u>2358</u> P.S.I. | Opened Tool                | <u>11:40 A.M.</u> |                  |
| B First Initial Flow Pressure  | <u>31</u> P.S.I.   | First Flow Pressure        | <u>15</u> Mins.   | <u>15</u> Mins.  |
| C First Final Flow Pressure    | <u>26</u> P.S.I.   | Initial Closed-in Pressure | <u>30</u> Mins.   | <u>29</u> Mins.  |
| D Initial Closed-in Pressure   | <u>509</u> P.S.I.  | Second Flow Pressure       | <u>120</u> Mins.  | <u>118</u> Mins. |
| E Second Initial Flow Pressure | <u>31</u> P.S.I.   | Final Closed-in Pressure   | <u>30</u> Mins.   | <u>30</u> Mins.  |
| F Second Final Flow Pressure   | <u>31</u> P.S.I.   |                            |                   |                  |
| G Final Closed-in Pressure     | <u>643</u> P.S.I.  |                            |                   |                  |
| H Final Hydrostatic Mud        | <u>2321</u> P.S.I. |                            |                   |                  |

**PRESSURE BREAKDOWN**

| Point Mins.   | First Flow Press.   | Initial Shut-In  |               | Second Flow Pressure |               | Final Shut-In |               |
|---------------|---|--|---------------|----------------------|---------------|---------------|---------------|
|               | Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>    </u> Min. | Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min. | Point Minutes | Press.               | Point Minutes | Press.        | Point Minutes |
| P 1 <u>0</u>  | <u>31</u>   | <u>0</u>   | <u>26</u>     | <u>0</u>             | <u>31</u>     | <u>0</u>      | <u>31</u>     |
| P 2 <u>5</u>  | <u>28</u>   | <u>3</u>   | <u>90</u>     | <u>5</u>             | <u>31</u>     | <u>3</u>      | <u>107</u>    |
| P 3 <u>10</u> | <u>26</u>   | <u>6</u>   | <u>138</u>    | <u>10</u>            | <u>31</u>     | <u>6</u>      | <u>191</u>    |
| P 4 <u>15</u> | <u>26</u>   | <u>9</u>   | <u>188</u>    | <u>15</u>            | <u>31</u>     | <u>9</u>      | <u>260</u>    |
| P 5           |   | <u>12</u>  | <u>241</u>    | <u>20</u>            | <u>31</u>     | <u>12</u>     | <u>339</u>    |
| P 6           |   | <u>15</u>  | <u>293</u>    | <u>25</u>            | <u>31</u>     | <u>15</u>     | <u>404</u>    |
| P 7           |   | <u>18</u>  | <u>341</u>    | <u>30</u>            | <u>31</u>     | <u>18</u>     | <u>468</u>    |
| P 8           |   | <u>21</u>  | <u>394</u>    | <u>35</u>            | <u>31</u>     | <u>21</u>     | <u>520</u>    |
| P 9           |   | <u>24</u>  | <u>461</u>    | <u>40</u>            | <u>31</u>     | <u>24</u>     | <u>567</u>    |
| P10           |   | <u>27</u>  | <u>492</u>    | <u>45</u>            | <u>31</u>     | <u>27</u>     | <u>609</u>    |
| P11           |   | <u>29</u>  | <u>509</u>    | <u>50</u>            | <u>31</u>     | <u>30</u>     | <u>643</u>    |
| P12           |   |  |               | <u>55</u>            | <u>31</u>     |               |               |
| P13           |   |  |               | <u>60</u>            | <u>31</u>     |               |               |
| P14           |   |  |               | <u>65</u>            | <u>31</u>     |               |               |
| P15           |   |  |               | <u>70</u>            | <u>31</u>     |               |               |
| P16           |   |  |               | <u>75</u>            | <u>31</u>     |               |               |
| P17           |   |  |               | <u>80</u>            | <u>31</u>     |               |               |
| P18           |   |  |               | <u>85</u>            | <u>31</u>     |               |               |
| P19           |   |  |               | <u>90</u>            | <u>31</u>     |               |               |
| P20           |   |  |               | <u>95</u>            | <u>31</u>     |               |               |
|               |   |  |               | <u>100</u>           | <u>31</u>     |               |               |
|               |   |  |               | <u>105</u>           | <u>31</u>     |               |               |
|               |   |  |               | <u>110</u>           | <u>31</u>     |               |               |
|               |   |  |               | <u>115</u>           | <u>31</u>     |               |               |
|               |   |  |               | <u>118</u>           | <u>31</u>     |               |               |

MONARCH OIL & GAS COMPANY  
LAUTERBACH #1

T.K.T 10837  
TEST #1



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|--|---------------|----------------|-----|
|  | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 2371          | 2358           | PSI |
| (B) First Initial Flow Pressure .....  | 27            | 31             | PSI |
| (C) First Final Flow Pressure .....    | 27            | 26             | PSI |
| (D) Initial Closed-in Pressure .....   | 513           | 509            | PSI |
| (E) Second Initial Flow Pressure ..... | 35            | 31             | PSI |
| (F) Second Final Flow Pressure .....   | 35            | 31             | PSI |
| (G) Final Closed-in Pressure .....     | 653           | 643            | PSI |
| (H) Final Hydrostatic Mud .....        | 2337          | 2321           | PSI |