



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Graves Etal Lease & Well No. Chambers #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 22350

Date 4-29-77 Sec. 1 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Fredrick W. Stump Western Representative Bill Hager

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3919' to 3948' Total Depth 3948'

Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 3914 Ft. Size 6 3/4 Bottom Packer Depth 3919 Ft. Size 6 3/4

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 Fh Anchor Length 29 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3924 Ft. Clock No. 6799 Depth 3927 Ft. Clock No. 6894

Top Make Kuster Cap. 4000 No. 3351 <sup>Inside</sup> ~~Outside~~ Bottom Make Kuster Cap. 3000 No. 3474 <sup>Inside</sup> ~~Outside~~

Below Straddle: Depth  Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~ Depth  Ft. Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~

Time Set Packer 8:50 P.M.

Tool Open I.F.P. From 8:53 P.M. to 9:08 P.M. - Hr. 15 Min. From (B) 120 P.S.I. To (C) 118 P.S.I.

Tool Closed I.C.I.P. From 9:08 M. to 9:53 P.M. - Hr. 45 Min (D) 1314 P.S.I.

Tool Open F.F.P. From 9:53 P.M. to 10:53 P.M. 1 Hr. - Min. From (E) 135 P.S.I. To (F) 150 P.S.I.

Tool Closed F.C.I.P. From 10:53 M. to 11:38 P.M. - Hr. 45 Min. (G) 1308 P.S.I.

Initial Hydrostatic Pressure (A) 2036 P.S.I. Final Hydrostatic Pressure (H) 2018 P.S.I. Maximum Temp. 126

**INFORMATION**

BLOW Strong blow throughout test. Gas to surface in 2 minutes. See attached sheet for gas measurements.

Did Well Flow - Yes  No  Recovery Total Ft. 300' total recovery. 60' mud, 240' muddy water.

Reversed Out - Yes  No  Mud Type starch Viscosity 45 Weight 9.6 Water Loss 11.6 cc. Chlorides 57,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Jars: Size  In. Make  Ser. No.

Dual Packer  Yes Did Packers Hold?  Yes Did Tool Plug?  No Where?

DRILLING CONTRACTOR company tools Length Drill Pipe? 3592 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 306 Ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 90 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 50 Ft.

Remarks: Chlorides check - 96,000 P.P.M.

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

Date 4-29-77

Test Ticket No. 22350

Recorder No. 3351 Capacity 4000 Location 3924 Ft.

Clock No. 6799 Elevation - Well Temperature 126 °F

| Point | Pressure                     |                    |                            | Time            |                 |
|-------|------------------------------|--------------------|----------------------------|-----------------|-----------------|
|       |                              |                    |                            | Given           | Computed        |
| A     | Initial Hydrostatic Mud      | <u>2036</u> P.S.I. | Open Tool                  | <u>8:50</u> P   | <u>M</u>        |
| B     | First Initial Flow Pressure  | <u>120</u> P.S.I.  | First Flow Pressure        | <u>15</u> Mins. | <u>15</u> Mins. |
| C     | First Final Flow Pressure    | <u>118</u> P.S.I.  | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D     | Initial Closed-in Pressure   | <u>1314</u> P.S.I. | Second Flow Pressure       | <u>60</u> Mins. | <u>60</u> Mins. |
| E     | Second Initial Flow Pressure | <u>135</u> P.S.I.  | Final Closed-in Pressure   | <u>45</u> Mins. | <u>48</u> Mins. |
| F     | Second Final Flow Pressure   | <u>150</u> P.S.I.  |                            |                 |                 |
| G     | Final Closed-in Pressure     | <u>1308</u> P.S.I. |                            |                 |                 |
| H     | Final Hydrostatic Mud        | <u>2018</u> P.S.I. |                            |                 |                 |

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 3 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 15 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 12 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 16 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

| Point Mins.   | Press.     | Point Minutes | Press.      | Point Minutes | Press.     | Point Minutes | Press.      |
|---------------|------------|---------------|-------------|---------------|------------|---------------|-------------|
| P 1 <u>0</u>  | <u>120</u> | <u>0</u>      | <u>118</u>  | <u>0</u>      | <u>135</u> | <u>0</u>      | <u>150</u>  |
| P 2 <u>5</u>  | <u>112</u> | <u>3</u>      | <u>574</u>  | <u>5</u>      | <u>120</u> | <u>3</u>      | <u>805</u>  |
| P 3 <u>10</u> | <u>118</u> | <u>6</u>      | <u>1133</u> | <u>10</u>     | <u>121</u> | <u>6</u>      | <u>1181</u> |
| P 4 <u>15</u> | <u>118</u> | <u>9</u>      | <u>1268</u> | <u>15</u>     | <u>125</u> | <u>9</u>      | <u>1246</u> |
| P 5 _____     | _____      | <u>12</u>     | <u>1292</u> | <u>20</u>     | <u>129</u> | <u>12</u>     | <u>1270</u> |
| P 6 _____     | _____      | <u>15</u>     | <u>1300</u> | <u>25</u>     | <u>131</u> | <u>15</u>     | <u>1283</u> |
| P 7 _____     | _____      | <u>18</u>     | <u>1306</u> | <u>30</u>     | <u>134</u> | <u>18</u>     | <u>1292</u> |
| P 8 _____     | _____      | <u>21</u>     | <u>1310</u> | <u>35</u>     | <u>137</u> | <u>21</u>     | <u>1297</u> |
| P 9 _____     | _____      | <u>24</u>     | <u>1312</u> | <u>40</u>     | <u>139</u> | <u>24</u>     | <u>1301</u> |
| P10 _____     | _____      | <u>27</u>     | <u>1313</u> | <u>45</u>     | <u>141</u> | <u>27</u>     | <u>1304</u> |
| P11 _____     | _____      | <u>30</u>     | <u>1313</u> | <u>50</u>     | <u>145</u> | <u>30</u>     | <u>1305</u> |
| P12 _____     | _____      | <u>33</u>     | <u>1313</u> | <u>55</u>     | <u>148</u> | <u>33</u>     | <u>1307</u> |
| P13 _____     | _____      | <u>36</u>     | <u>1313</u> | <u>60</u>     | <u>150</u> | <u>36</u>     | <u>1307</u> |
| P14 _____     | _____      | <u>39</u>     | <u>1314</u> | _____         | _____      | <u>39</u>     | <u>1307</u> |
| P15 _____     | _____      | <u>42</u>     | <u>1314</u> | _____         | _____      | <u>42</u>     | <u>1308</u> |
| P16 _____     | _____      | <u>45</u>     | <u>1314</u> | _____         | _____      | <u>45</u>     | <u>1308</u> |
| P17 _____     | _____      | _____         | _____       | _____         | _____      | <u>48</u>     | <u>1308</u> |
| P18 _____     | _____      | _____         | _____       | _____         | _____      | _____         | _____       |
| P19 _____     | _____      | _____         | _____       | _____         | _____      | _____         | _____       |
| P20 _____     | _____      | _____         | _____       | _____         | _____      | _____         | _____       |



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**GAS FLOW REPORT**

Date 4-29-77 Ticket 22350 Company Graves Etal  
 Well Name and No. Chambers #1 Dst No. 1 Interval Tested 3819' - 3948'  
 County Kingman State Kansas Sec. 1 Twp. 29S Rg. 6W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitor Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| <b>PRE FLOW</b>     |                    |                                     |                        |                              |                         |                     |
| 9:00 PM             | 7 min.             | 72 inches                           | of water               |                              | 1 1/4" choke            | 373,000 C.F.P.D.    |
| 9:08 PM             | 15 min.            | 4 PSIG                              |                        |                              | 1 1/4" choke            | 480,000 C.F.P.D.    |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |

| <b>SECOND FLOW</b> |         |          |  |  |              |                  |
|--------------------|---------|----------|--|--|--------------|------------------|
| 10:03 PM           | 10 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
| 10:13 PM           | 20 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
| 10:23 PM           | 30 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
| 10:33 PM           | 40 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
| 10:43 PM           | 50 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
| 10:53 PM           | 60 min. | 4.5 PSIG |  |  | 1 1/4" choke | 511,000 C.F.P.D. |
|                    |         |          |  |  |              |                  |
|                    |         |          |  |  |              |                  |

**GAS BOTTLE**

Serial No. \_\_\_\_\_ Date Bottle Filled 4-29-77 Date to be Invoiced 4-29-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Graves Etal

Authorized by Fredrick W. Stump

Tk+ # 22350

I,

(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

