



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25702

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation MISS Elevation _____ Eff. Pay _____ Ft.

District PRAIRIE Date 5-23 Customer Order No. _____

COMPANY NAME GEAR PETROLEUM CO.

ADDRESS 1325 VICKERS - KSB&T BLDG. WICHITA, KS 67202

LEASE AND WELL NO. REIDA #1 COUNTY HARPER STATE KS Sec. 16 Twp. 31 Rge. 6W

Mail Inv. To SAME Co. Name _____ Address _____ No. Copies Requested REC

Mail Charts To SAME Co. Name _____ Address _____ No. Copies Requested REC

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 4263 to 4301 Total Depth 4301

Size Main Hole 7 7/8 Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4258 Ft. Size 6 3/4 Bottom Packer Depth 4263 Ft. Size 6 3/4

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

Tool Size 5 1/2 I.D. Tool Joint Size 4 1/2 I.D. Anchor Length 38 Ft. Size 5 1/2 I.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4267 Ft. Clock No. 6894 Depth 4270 Ft. Clock No. 6799

Top Make KUSTER Cap. 4000 No. 3351 Inside _____ Outside _____ Bottom Make KUSTER Cap. 3000 No. 3444 Inside _____ Outside _____

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Depth _____ Ft. Rec. No. _____ Clock No. _____

Time Set Packer 8:43 P. M.

Tool Open I.F.P. From 8:45 M. to 9:30 M. — Hr. 45 Min. From (B) 20 20 P.S.I. To (C) 20 20 P.S.I.

Tool Closed I.C.I.P. From 9:30 M. to 10:15 M. — Hr. 45 Min. (D) 90 90 P.S.I.

Tool Open F.F.P. From 10:15 M. to 11:15 M. 1 Hr. — Min. From (E) 90 15 P.S.I. To (F) 40 / 40 P.S.I.

Tool Closed F.C.I.P. From 11:15 M. to 12:15 M. 1 Hr. — Min. (G) 770 287 P.S.I.

Initial Hydrostatic Pressure (A) 2091 2087 P.S.I. Final Hydrostatic Pressure (H) 2071 2026 P.S.I. Maximum Temp. 134

INFORMATION

BLOW STRONG BLOW THROUGH TEST

Did Well Flow Yes No _____ Recovery Total Ft. 45 ft. DRUG MUD

Reversed Out Yes No _____ Mud Type PRANK Viscosity 47 Weight 9.3 Water Loss 9.6 cc. Chlorides 15,000

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

Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR GRAVES DRUG CO. Length Drill Pipe 3908 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 I.D.

Length Weight Pipe 275 ft. I.D. Weight Pipe 3 1/4 In. Tool Joint Size 4 1/2 I.D. Length Drill Collars 60 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 I.D. Length D.S.T. Tool 33 ft.

Remarks clock # 6799 stopped

INVOICE SECTION

| | |
|----------------|-----------|
| Open Hole Test | \$ 415.00 |
| Straddle Test | \$ |
| Jars | \$ |
| Selective Zone | \$ |
| Safety Joint | \$ |
| Misrun | \$ |
| Evaluation | \$ |
| Packer | \$ |
| Circ. Sub. | \$ |
| Total | \$ 415.00 |

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Charley W. Skank Western Representative Bill Taylor

Signature of Customer or his Authorized Representative

Operator's Time THANK YOU Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-23-77 Test Ticket No. 25702
 Recorder No. 3351 Capacity 4000 Location 4267 Ft.
 Block No. 6894 Elevation — Well Temperature 136 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2087</u> P.S.I. | Open Tool | <u>8:43P</u> M | |
| B First Initial Flow Pressure | <u>22</u> P.S.I. | First Flow Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| C First Final Flow Pressure | <u>22</u> P.S.I. | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure | <u>96</u> P.S.I. | Second Flow Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>151</u> P.S.I. | Final Closed-in Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| F Second Final Flow Pressure | <u>424</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>787</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2026</u> P.S.I. | | | |

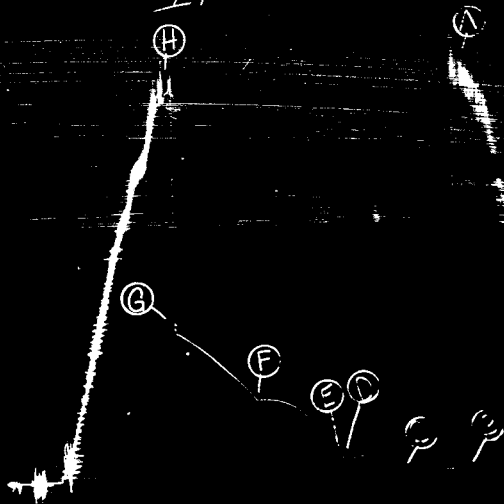
PRESSURE BREAKDOWN

| | | | |
|--|---|--|---|
| First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. | Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. |
|--|---|--|---|

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|-------------|-----------|---------------|-------------------------|---------------|---------------------------|---------------|------------|
| P 1 0 | <u>22</u> | 0 | 22 <u>22</u> | 0 | <u>151</u> 151 | 0 | <u>424</u> |
| P 2 5 | <u>22</u> | 3 | 88 <u>88</u> | 5 | <u>175</u> 175 | 3 | <u>452</u> |
| P 3 10 | <u>22</u> | 6 | <u>110</u> | 10 | <u>227</u> 227 | 6 | <u>476</u> |
| P 4 15 | <u>22</u> | 9 | <u>120</u> | 15 | <u>271</u> 271 | 9 | <u>496</u> |
| P 5 20 | <u>22</u> | 12 | <u>125</u> | 20 | <u>309</u> 309 | 12 | <u>518</u> |
| P 6 25 | <u>22</u> | 15 | <u>122</u> | 25 | <u>347</u> 347 | 15 | <u>538</u> |
| P 7 30 | <u>22</u> | 18 | <u>116</u> | 30 | <u>376</u> 376 | 18 | <u>560</u> |
| P 8 35 | <u>22</u> | 21 | <u>110</u> | 35 | <u>394</u> 394 | 21 | <u>576</u> |
| P 9 40 | <u>22</u> | 24 | <u>106</u> | 40 | <u>410</u> 410 | 24 | <u>596</u> |
| P10 45 | <u>22</u> | 27 | <u>102</u> | 45 | <u>418</u> 418 | 27 | <u>614</u> |
| P11 50 | <u>22</u> | 30 | <u>98</u> | 50 | <u>422</u> 422 | 30 | <u>633</u> |
| P12 55 | <u>22</u> | 33 | <u>96</u> | 55 | <u>424</u> 424 | 33 | <u>649</u> |
| P13 60 | <u>22</u> | 36 | <u>98</u> | 60 | <u>424</u> 424 | 36 | <u>669</u> |
| P14 | <u>22</u> | 39 | <u>100</u> | 65 | <u>424</u> 424 | 39 | <u>685</u> |
| P15 | <u>22</u> | 42 | <u>98</u> | 70 | <u>424</u> 424 | 42 | <u>701</u> |
| P16 | <u>22</u> | 45 | <u>96</u> | 75 | <u>424</u> 424 | 45 | <u>719</u> |
| P17 | <u>22</u> | 48 | <u>96</u> | 80 | <u>424</u> 424 | 48 | <u>733</u> |
| P18 | <u>22</u> | 51 | <u>96</u> | 85 | <u>424</u> 424 | 51 | <u>747</u> |
| P19 | <u>22</u> | 54 | <u>96</u> | 90 | <u>424</u> 424 | 54 | <u>763</u> |
| P20 | <u>22</u> | 57 | <u>96</u> | | | 57 | <u>777</u> |
| | | 60 | <u>96</u> | | | 60 | <u>787</u> |

TK# 25702

I.





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

Company Gear Petroleum Co. Lease & Well No. Reida #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25702
 Date 5-23-77 Sec. 16 Twp. 31S Range 6W County Harper State Kansas
 Test Approved by Charley V. Shank Western Representative Bill Hager
 Formation Test No. 1 O.K. Misrun Interval Tested From 4263' to 4301' Total Depth 4301'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4258 Ft. Size 6 3/4 Bottom Packer Depth 4263 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 38 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4267 Ft. Clock No. 6894 Depth 4270 Ft. Clock No. 6799
 Top Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside Bottom Make Kuster Cap. 3000 No. 3474 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
 Time Set Packer 8:43 P_M
 Tool Open I.F.P. From 8:45 P.M. to 9:30 P.M. - Hr. 45 Min. From (B) 22 P.S.I. To (C) 22 P.S.I.
 Tool Closed I.C.I.P. From 9:30 P.M. to 10:15 P.M. - Hr. 45 Min (D) 96 P.S.I.
 Tool Open F.F.P. From 10:15 P.M. to 11:15 P.M. 1 Hr. - Min. From (E) 151 P.S.I. To (F) 424 P.S.I.
 Tool Closed F.C.I.P. From 11:15 M. to 12:15 A.M. 1 Hr. - Min. (G) 787 P.S.I.
 Initial Hydrostatic Pressure (A) 2087 P.S.I. Final Hydrostatic Pressure (H) 2026 P.S.I. Maximum Temp. 136

INFORMATION

BLOW Strong blow throughout test.
 Did Well Flow - Yes No Recovery Total Ft. 45' drilling mud.
 Reversed Out - Yes No Mud Type premix Viscosity 49 Weight 9.3 Water Loss 9.6 cc. Chlorides 15,000 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 Graves Drlg. Co. Length Drill Pipe? 3908 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
 Length Weight Pipe 275 Ft. I.D. Weight Pipe 3 1/4 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 60 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 58 Ft.
 Remarks: Clock #6799 Stopped.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-23-77 Test Ticket No. 25702
 Recorder No. 3351 Capacity 4000 Location 4267 Ft.
 Clock No. 6894 Elevation - Well Temperature 136 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud | <u>2087</u> P.S.I. | Open Tool | <u>8:43</u> P.M. | |
| B First Initial Flow Pressure | <u>22</u> P.S.I. | First Flow Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| C First Final Flow Pressure | <u>22</u> P.S.I. | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure | <u>96</u> P.S.I. | Second Flow Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>151</u> P.S.I. | Final Closed-in Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| F Second Final Flow Pressure | <u>424</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>787</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2026</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|------|
| | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. |
| | of <u>5</u> mins. and a | | of <u>3</u> mins. and a | | of <u>5</u> mins. and a | | of <u>3</u> mins. and a | |
| | final inc. of <u>0</u> Min. | | final inc. of <u>0</u> Min. | | final inc. of <u>0</u> Min. | | final inc. of <u>0</u> Min. | |
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. | |
| P 1 <u>0</u> | <u>22</u> | <u>0</u> | <u>22</u> | <u>0</u> | <u>151</u> | <u>0</u> | <u>424</u> | |
| P 2 <u>5</u> | <u>22</u> | <u>3</u> | <u>88</u> | <u>5</u> | <u>175</u> | <u>3</u> | <u>452</u> | |
| P 3 <u>10</u> | <u>22</u> | <u>6</u> | <u>110</u> | <u>10</u> | <u>227</u> | <u>6</u> | <u>476</u> | |
| P 4 <u>15</u> | <u>22</u> | <u>9</u> | <u>120</u> | <u>15</u> | <u>271</u> | <u>9</u> | <u>496</u> | |
| P 5 <u>20</u> | <u>22</u> | <u>12</u> | <u>125</u> | <u>20</u> | <u>309</u> | <u>12</u> | <u>518</u> | |
| P 6 <u>25</u> | <u>22</u> | <u>15</u> | <u>122</u> | <u>25</u> | <u>347</u> | <u>15</u> | <u>538</u> | |
| P 7 <u>30</u> | <u>22</u> | <u>18</u> | <u>116</u> | <u>30</u> | <u>376</u> | <u>18</u> | <u>560</u> | |
| P 8 <u>35</u> | <u>22</u> | <u>21</u> | <u>110</u> | <u>35</u> | <u>394</u> | <u>21</u> | <u>576</u> | |
| P 9 <u>40</u> | <u>22</u> | <u>24</u> | <u>106</u> | <u>40</u> | <u>410</u> | <u>24</u> | <u>596</u> | |
| P10 <u>45</u> | <u>22</u> | <u>27</u> | <u>102</u> | <u>45</u> | <u>418</u> | <u>27</u> | <u>614</u> | |
| P11 | | <u>30</u> | <u>98</u> | <u>50</u> | <u>422</u> | <u>30</u> | <u>633</u> | |
| P12 | | <u>33</u> | <u>96</u> | <u>55</u> | <u>424</u> | <u>33</u> | <u>649</u> | |
| P13 | | <u>36</u> | <u>98</u> | <u>60</u> | <u>424</u> | <u>36</u> | <u>669</u> | |
| P14 | | <u>39</u> | <u>100</u> | | | <u>39</u> | <u>685</u> | |
| P15 | | <u>42</u> | <u>98</u> | | | <u>42</u> | <u>701</u> | |
| P16 | | <u>45</u> | <u>96</u> | | | <u>45</u> | <u>719</u> | |
| P17 | | | | | | <u>48</u> | <u>733</u> | |
| P18 | | | | | | <u>51</u> | <u>747</u> | |
| P19 | | | | | | <u>54</u> | <u>763</u> | |
| P20 | | | | | | <u>57</u> | <u>777</u> | |
| | | | | | | <u>60</u> | <u>787</u> | |



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25703

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation MISS Elevation Eff. Pay Ft.

District Pratt Date 5-23-77 Customer Order No.

COMPANY NAME Lear Petroleum

ADDRESS 1325 Tickers RSB&T Bldg, Wichita, Kans.

LEASE AND WELL NO. Keida COUNTY Harper STATE Kans Sec. 16 Twp. 31 Rge. 6W

Mail Inv. To Co. Name SAME Address No. Copies Requested

Mail Charts To Co. Name SAME Address No. Copies Requested

Formation Test No. 2 O.K. Misrun X Interval Tested From 4303 to 4325 Total Depth 4325

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged X Yes No Conv. X B.T. Damaged Yes X No

Top Packer Depth 4298 Ft. Size 6 3/4 Bottom Packer Depth 4303 Ft. Size 6 3/4

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

Tool Size 5 7/8 Tool Joint Size 4 1/2 F.H. Anchor Length 22 Ft. Size 5 3/4 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4302 Ft. Clock No. 6799 Depth 4315 Ft. Clock No. 6894

Top Make Kuster Cap 4400 No. 3351 Inside Outside Bottom Make Kuster Cap 4000 No. 3474 Inside Outside

Below Straddle: Depth Rec. No. Clock No. Outside Depth Ft. Rec. No. Clock No. Outside

Time Set Packer M

Tool Open I.F.P. From M. to M. Hr. Min. From (B) P.S.I. To (C) P.S.I.

Tool Closed I.C.I.P. From M. to M. Hr. Min. (D) P.S.I.

Tool Open F.F.P. From M. to M. Hr. Min. From (E) P.S.I. To (F) P.S.I.

Tool Closed F.C.I.P. From M. to M. Hr. Min. (G) P.S.I.

Initial Hydrostatic Pressure (A) 2210 P.S.I. Final Hydrostatic Pressure (H) 2127 P.S.I. Maximum Temp.

INFORMATION

BLOW

Did Well Flow Yes No Recovery Total Ft.

Reversed Out Yes No Mud Type PREMIX Viscosity Weight Water Loss cc. Chlorides

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

Dual Packers YE Did Packers Hold? Did Tool Plug? Where?

DRILLING CONTRACTOR GRAVES DRILL Length Drill Pipe 3848 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 F.H.

Length Weight Pipe 275 ft. I.D. Weight Pipe 244 In. Tool Joint Size 4 1/2 F.H. Length Drill Collars 60 ft. I.D. Drill Collars 244 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 42 ft. each bottom slid tool 25' to bottom

Remarks Opened tool trying to slid tool 25' to bottom, tore up TOP packer

INVOICE SECTION

Table with 2 columns: Item Name and Amount. Items include Open Hole Test, Straddle Test, Jars, Selective Zone, Safety Joint, Misrun, Evaluation, Packer, Circ. Sub., and Total.

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Charley V. Shank Western Representative Bill Dagu

Signature of Customer or his Authorized Representative

Operator's Time THANK YOU Hrs.

H17+25703

I.

(H)

(H)



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

Company Gear Petroleum Co. Lease & Well No. Reida #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25703

Date 5-23-77 Sec. 16 Twp. 31S Range 6W County Harper State Kansas

Test Approved by Charley V. Shank Western Representative Bill Hager

Formation Test No. 2 O.K. - Misrun X Interval Tested From 4303' to 4325' Total Depth 4325'

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

Top Packer Depth 4298 Ft. Size 6 3/4 Bottom Packer Depth 4303 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 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4312 Ft. Clock No. 6799 Depth 4315 Ft. Clock No. 6894

Top Make Kuster Cap. 4400 No. 3351 Inside Outside Bottom Make Kuster Cap. 4000 No. 3474 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer - M

Tool Open I.F.P. From - M. to - M. - Hr. - Min. From (B) - P.S.I. To (C) - P.S.I.

Tool Closed I.C.I.P. From - M. to - M. - Hr. - Min (D) - P.S.I.

Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.

Initial Hydrostatic Pressure (A) 2210 P.S.I. Final Hydrostatic Pressure (H) 2127 P.S.I. Maximum Temp. -

INFORMATION

BLOW -

Did Well Flow - Yes - No Recovery Total Ft. -

Reversed Out - Yes - No Mud Type premix Viscosity - Weight - Water Loss - cc. Chlorides -

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

Dual Packer - Did Packers Hold? - Did Tool Plug? - Where? -

DRILLING CONTRACTOR Graves Drlg. Co. Length Drill Pipe? 3848 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 275 Ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 60 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 42 Ft.

Remarks: Opened tool trying to reach bottom. Slid tool 25' to bottom, tore up top packer.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25704

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation MISS Elevation Eff. Pay Ft.

District Platt Date 5-24-27 Customer Order No.

COMPANY NAME Geau Petroleum

ADDRESS 1325 Vickers KSB&T Bldg. Wichita, Mo.

LEASE AND WELL NO. Reider COUNTY Osage STATE Mo. Sec. 16 Twp. 31 Rge. 6 W

Mail Inv. To Co. Name Same Address No. Copies Requested 100

Mail Charts To Same Address No. Copies Requested 100

Formation Test No. 3 O.K. X Misrun Interval Tested From 4303 to 4340 Total Depth 4340

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Top Packer Depth 4298 Ft. Size 6 3/4 Bottom Packer Depth 4303 Ft. Size 6 3/4

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

Tool Size 5 1/2 D Tool Joint Size 4 1/2 FH Anchor Length 37 Ft. Size 5 1/2 D Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4307 Ft. Clock No. 6799 Inside Depth 4310 Ft. Clock No. 6894 Inside

Top Make Kuster Cap. 4000 No. 3351 Outside Bottom Make Kuster Cap. 4000 No. 3474 Outside

Below Straddle: Depth Rec. No. Clock No. Outside Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 9:28 M

Tool Open I.F.P. From 9:30 M. to 10:15 M. Hr. 45 Min. From (B) 2038 P.S.I. To (C) 4046 P.S.I.

Tool Closed I.C.I.P. From 10:15 M. to 11:00 M. Hr. 45 Min. (D) 1436 1462 P.S.I.

Tool Open F.F.P. From 11:00 M. to 12:00 M. 1 Hr. Min. From (E) 5048 P.S.I. To (F) 6078 P.S.I.

Tool Closed F.C.I.P. From 12:00 M. to 1:00 M. 1 Hr. Min. (G) 2057 2081 96 1413 P.S.I.

Initial Hydrostatic Pressure (A) 2057 P.S.I. Final Hydrostatic Pressure (H) 2057 P.S.I. Maximum Temp. 136

INFORMATION

BLOW STRUCK - BLOW THRU - OUT TEST - GAS TO SURFACE IN 43 MIN OF FIRST OPENING.

Did Well Flow Yes X No Recovery Total Ft. 240 ft. 170' G.C. mud 170' G.C. WATER

Reversed Out Yes X No Mud Type MUD Viscosity 45 Weight 9.3 Water Loss 8.0 cc. Chlorides 140

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

Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where?

DRILLING CONTRACTOR GRAVES DRILL Length Drill Pipe 3848 ft. I.D. Drill Pipe 7.8 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe 272 ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 FH Length Drill Collars 60 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH Length D.S.T. Tool 57 ft.

Remarks

INVOICE SECTION

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$415.00), Straddle Test, Jars, Selective Zone, Safety Joint, Misrun, Evaluation, Packer, Circ. Sub., Total (\$415.00).

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Charley T. Shanks Western Representative Bill Hayes Operator's Time Thank You Hrs.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 682

Date 5-24-77 Ticket 25704 Company Hearst Co.
Well Name and No. Rivola #1 Dst No. 3 Interval Tested 4303-40
County Harper State Ks. Sec. 16 Twp. 31 Rg. 6W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|--------------------------------|
| PRE FLOW | | | | | | |
| | | | | | | <u>Auto Surface 93 minutes</u> |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | | SECOND FLOW | | |
|-----------------------------|-----------|-----------|------------|----------------------|--|-------------------------|
| <u>TEST OPENED AT 11:00</u> | | | | | | |
| <u>11:10</u> | <u>10</u> | <u>68</u> | <u>3/4</u> | <u>Plate orifice</u> | | <u>117,000 CF, P.D.</u> |
| <u>11:20</u> | <u>20</u> | <u>10</u> | <u>1</u> | <u>"</u> | | <u>44,800 "</u> |
| <u>11:30</u> | <u>30</u> | <u>38</u> | <u>1/4</u> | <u>"</u> | | <u>10,400 "</u> |
| <u>11:40</u> | <u>40</u> | <u>94</u> | <u>1/4</u> | <u>"</u> | | <u>16,300 "</u> |
| <u>11:50</u> | <u>50</u> | <u>20</u> | <u>1/2</u> | <u>"</u> | | <u>28,000 "</u> |
| <u>12:00</u> | <u>60</u> | <u>16</u> | <u>1/2</u> | <u>"</u> | | <u>25,100 "</u> |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GAS BOTTLE

Serial No. 637 Date Bottle Filled 5-24-77 Date to be Invoiced 6-24-77

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 _____

Authorized by Charley V. Shank

WESTERN TESTING CO., INC.

Pressure Data

Date 5-24-77 Test Ticket No. 25704
 Recorder No. 3351 Capacity 4400 Location 4307 Ft.
 Clock No. 6799 Elevation — Well Temperature 136 °F

| Point | Pressure | Time Given | Time Computed |
|--------------------------------|--------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2089</u> P.S.I. | <u>9:28</u> M | |
| B First Initial Flow Pressure | <u>38</u> P.S.I. | <u>45</u> Mins. | <u>45</u> Mins. |
| C First Final Flow Pressure | <u>46</u> P.S.I. | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure | <u>1462</u> P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>48</u> P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| F Second Final Flow Pressure | <u>78</u> P.S.I. | | |
| G Final Closed-in Pressure | <u>1413</u> P.S.I. | | |
| H Final Hydrostatic Mud | <u>2081</u> P.S.I. | | |

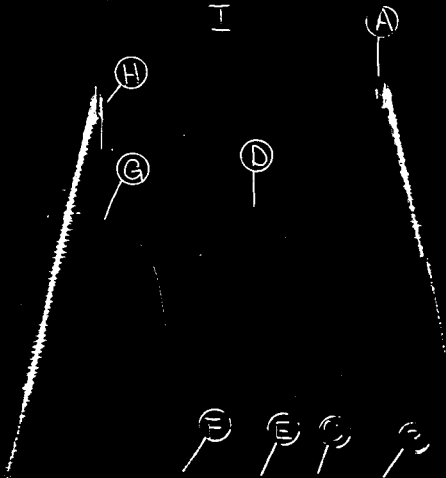
PRESSURE BREAKDOWN

| | | | |
|--|---|--|---|
| First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. | Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. |
|--|---|--|---|

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|-------------------|-----------|---------------|-------------|---------------|-----------|---------------|-------------|
| P 1 0 | <u>38</u> | 0 | <u>46</u> | 0 | <u>48</u> | 0 | <u>78</u> |
| P 2 5 | <u>24</u> | 3 | <u>376</u> | 5 | <u>60</u> | 3 | <u>285</u> |
| P 3 10 | <u>25</u> | 6 | <u>641</u> | 10 | <u>60</u> | 6 | <u>562</u> |
| P 4 15 | <u>26</u> | 9 | <u>886</u> | 15 | <u>62</u> | 9 | <u>767</u> |
| P 5 20 | <u>30</u> | 12 | <u>1060</u> | 20 | <u>64</u> | 12 | <u>956</u> |
| P 6 25 | <u>36</u> | 15 | <u>1200</u> | 25 | <u>65</u> | 15 | <u>1087</u> |
| P 7 30 | <u>40</u> | 18 | <u>1288</u> | 30 | <u>68</u> | 18 | <u>1175</u> |
| P 8 35 | <u>42</u> | 21 | <u>1341</u> | 35 | <u>72</u> | 21 | <u>1234</u> |
| P 9 40 | <u>44</u> | 24 | <u>1381</u> | 40 | <u>70</u> | 24 | <u>1272</u> |
| P10 45 | <u>46</u> | 27 | <u>1403</u> | 45 | <u>72</u> | 27 | <u>1300</u> |
| P11 50 | | 30 | <u>1421</u> | 50 | <u>72</u> | 30 | <u>1319</u> |
| P12 55 | | 33 | <u>1437</u> | 55 | <u>74</u> | 33 | <u>1337</u> |
| P13 60 | | 36 | <u>1444</u> | 60 | <u>78</u> | 36 | <u>1349</u> |
| P14 | | 39 | <u>1450</u> | 65 | | 39 | <u>1363</u> |
| P15 | | 42 | <u>1458</u> | 70 | | 42 | <u>1373</u> |
| P16 | | 45 | <u>1462</u> | 75 | | 45 | <u>1391</u> |
| P17 | | 48 | | 80 | | 48 | <u>1389</u> |
| P18 | | 51 | | 85 | | 51 | <u>1395</u> |
| P19 | | 54 | | 90 | | 54 | <u>1401</u> |
| P20 | | 57 | | | | 57 | <u>1409</u> |
| | | 60 | | | | 60 | <u>1413</u> |

TKI # 25704

I





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

Company Gear Petroleum Co. Lease & Well No. Reida #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25704
 Date 5-24-77 Sec. 16 Twp. 31S Range 6W County Harper State Kansas
 Test Approved by Charley V. Shank Western Representative Bill Hager
 Formation Test No. 3 O.K. Misrun Interval Tested From 4303' to 4340' Total Depth 4340'
 Size Main Hole 7 7/8 In. Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4298 Ft. Size 6 3/4 Bottom Packer Depth 4303 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 37 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4307 Ft. Clock No. 6799 Depth 4310 Ft. Clock No. 6894
 Top Make Kuster Cap. 4400 No. 3351 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4000 No. 3474 ~~Inside~~ ^{Outside}
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ ^{Inside} Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ ^{Outside}
 Time Set Packer 9:28 M
 Tool Open I.F.P. From 9:30 M. to 10:15 M. - Hr. 45 Min. From (B) 38 P.S.I. To (C) 46 P.S.I.
 Tool Closed I.C.I.P. From 10:15 M. to 11:00 M. - Hr. 45 Min (D) 1462 P.S.I.
 Tool Open F.F.P. From 11:00 M. to 12:00 M. - Hr. 60 Min. From (E) 48 P.S.I. To (F) 78 P.S.I.
 Tool Closed F.C.I.P. From 12:00 M. to 1:00 M. - Hr. 60 Min. (G) 1413 P.S.I.
 Initial Hydrostatic Pressure (A) 2089 P.S.I. Final Hydrostatic Pressure (H) 2081 P.S.I. Maximum Temp. 136

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 43 minutes on initial flow period.
See attached sheet for gas measurements.
 Did Well Flow Yes No Recovery Total Ft. 240' total recovery. 120' gas cut mud, 120' gas cut water.

Reversed Out Yes No Mud Type Premix Viscosity 45 Weight 9.3 Water Loss 8.0 cc. Chlorides 14,000 PPM
 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 Graves Drlg. Co. Inc. Length Drill Pipe? 3848 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
 Length Weight Pipe 275 Ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 60 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 57 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

5-24-77 Test Ticket No. 25704
 Order No. 3351 Capacity 4400 Location 4307 Ft.
 Well No. 6799 Elevation - Well Temperature 136 °F

| Point | Pressure | Open Tool | Time Given | Time Computed |
|------------------------------|-------------|----------------------------|------------|---------------|
| Initial Hydrostatic Mud | 2089 P.S.I. | Open Tool | 9:28 | M |
| First Initial Flow Pressure | 38 P.S.I. | First Flow Pressure | 45 Mins. | 45 Mins. |
| First Final Flow Pressure | 46 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| Initial Closed-in Pressure | 1462 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| Second Initial Flow Pressure | 48 P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| Second Final Flow Pressure | 78 P.S.I. | | | |
| Final Closed-in Pressure | 1413 P.S.I. | | | |
| Final Hydrostatic Mud | 2081 P.S.I. | | | |

PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|----------------------|--------|----------------------|--------|----------------------|--------|----------------------|--------|
| Breakdown: 9 Inc. | | Breakdown: 15 Inc. | | Breakdown: 12 Inc. | | Breakdown: 20 Inc. | |
| of 5 mins. and a | | of 3 mins. and a | | of 5 mins. and a | | of 3 mins. and a | |
| final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | |
| Int ns. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| 0 | 38 | 0 | 46 | 0 | 48 | 0 | 78 |
| 2 | 24 | 3 | 376 | 5 | 60 | 3 | 285 |
| 3 | 25 | 6 | 641 | 10 | 60 | 6 | 562 |
| 4 | 26 | 9 | 886 | 15 | 62 | 9 | 767 |
| 5 | 30 | 12 | 1060 | 20 | 64 | 12 | 956 |
| 6 | 36 | 15 | 1200 | 25 | 65 | 15 | 1087 |
| 7 | 40 | 18 | 1288 | 30 | 68 | 18 | 1175 |
| 8 | 42 | 21 | 1341 | 35 | 72 | 21 | 1234 |
| 9 | 44 | 24 | 1381 | 40 | 70 | 24 | 1272 |
| 0 | 46 | 27 | 1403 | 45 | 72 | 27 | 1300 |
| 1 | | 30 | 1421 | 50 | 72 | 30 | 1319 |
| 2 | | 33 | 1437 | 55 | 74 | 33 | 1337 |
| 3 | | 36 | 1444 | 60 | 78 | 36 | 1349 |
| 4 | | 39 | 1450 | | | 39 | 1363 |
| 5 | | 42 | 1458 | | | 42 | 1373 |
| 6 | | 45 | 1462 | | | 45 | 1391 |
| 7 | | | | | | 48 | 1389 |
| 8 | | | | | | 51 | 1395 |
| 9 | | | | | | 54 | 1401 |
| 0 | | | | | | 57 | 1409 |
| | | | | | | 60 | 1413 |



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

GAS FLOW REPORT

Date 5-24-77 Ticket 25704 Company Gear Petroleum Co.
 Well Name and No. Reida #1 Dst No. 3 Interval Tested 4303' to 4340'
 County Harper State Kansas Sec. 16 Twp. 31S Rg. 6W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| PRE FLOW | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| SECOND FLOW | | | | | | |
|--------------------|---------|-----------|----------|--|------------|------------------|
| 11:10 | 10 min. | 68 inches | of water | | 3/4"Choke | 117,000 C.F.P.D. |
| 11:20 | 20 min. | 10 inches | of water | | 3/4"choke | 44,800 C.F.P.D. |
| 11:30 | 30 min. | 38 inches | of water | | 1/4" choke | 10,400 C.F.P.D. |
| 11:40 | 40 min. | 94 inches | of water | | 1/4" choke | 16,300 C.F.P.D. |
| 11:50 | 50 min. | 20 inches | of water | | 1/2" choke | 28,000 C.F.P.D. |
| 12:00 | 60 min. | 16 inches | of water | | 1/2" choke | 25,100 C.F.P.D. |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GAS BOTTLE

Serial No. 637 Date Bottle Filled 5-24-77 Date to be Invoiced 6-24-77

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 Gear Petroleum Co.
 Authorized by Charley V. Shank