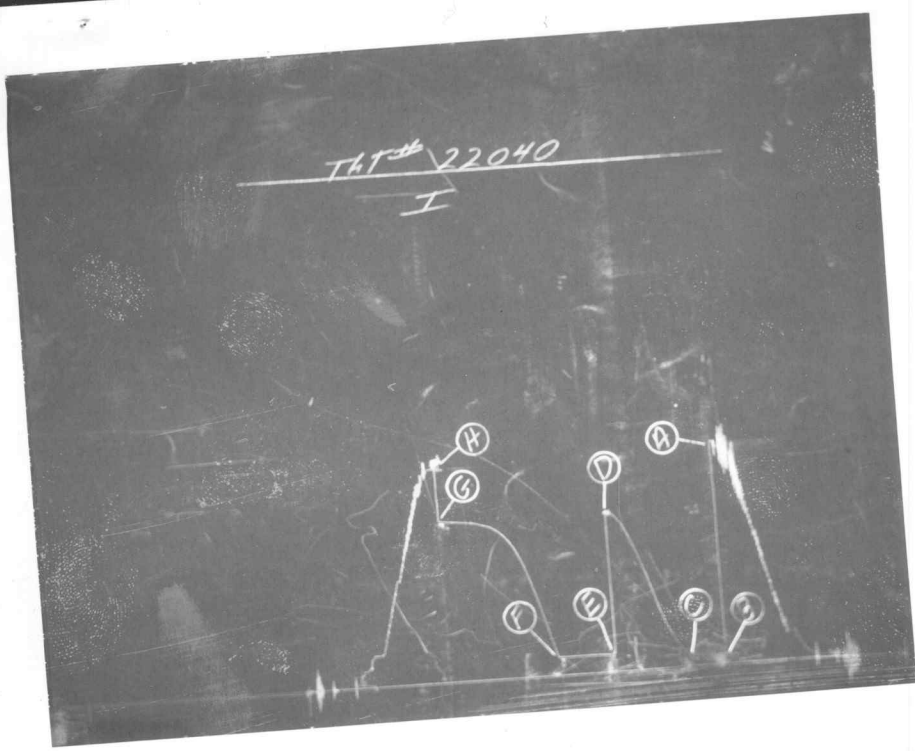


TAT# 22040

I





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

Company Texas Oil & Gas Corp. Lease & Well No. Thimesch #1
Elevation 1675 Kelly Bushing Formation Tarkio Effective Pay - - Ft. Ticket No. 22040
Date 3-22-76 Sec. 18 Twp. 29S Range 8W County Kingman State Kansas
Test Approved by G.L. Musgrove Western Representative Max Knipe
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2480' to 2575' Total Depth 2575'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 2475 Ft. Size 6 3/4 Bottom Packer Depth 2480 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 95 Ft. Size 5 1/2 Perf 63 6 1/4 D.C. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2491 Ft. Clock No. 6899 Depth 2494 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 4:57 M
Tool Open I.F.P. From 5:00 M. to 5:30 M. - Hr. 30 Min. From (B) 55 P.S.I. To (C) 56 P.S.I.
Tool Closed I.C.I.P. From 5:30 M. to 6:30 M. 1 Hr. - Min (D) 933 P.S.I.
Tool Open F.F.P. From 6:30 M. to 7:15 M. -5 Hr. 45 Min. From (E) 101 P.S.I. To (F) 104 P.S.I.
Tool Closed F.C.I.P. From 7:15 M. to 8:45 M. 1 Hr. 30 Min. (G) 934 P.S.I.
Initial Hydrostatic Pressure (A) 1288 P.S.I. Final Hydrostatic Pressure (H) 1233 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 25 minutes on second flow period.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 136' gas cut mud.

Reversed Out ☐ Yes ☒ No Mud Type chem Viscosity 35 Weight 9.6 Water Loss 60.8 cc. Chlorides 83,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint T.I.T. Jars: Size 4 3/4 In. Make WTC Ser. No. 404

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? - - -

DRILLING CONTRACTOR Xplor Drlg. Co. Length Drill Pipe? 2137 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 315 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 123 Ft.

Remarks: See attached sheet for gas measurements.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-22-76 Test Ticket No. 22040

Recorder No. 1051 Capacity 4250 Location 2491 Ft.

Clock No. 6899 Elevation 1675 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1288 P.S.I.	Open Tool	4:57	M
B First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	56 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	933 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	101 P.S.I.	Final Closed-in Pressure	90 Mins.	87 Mins.
F Second Final Flow Pressure	104 P.S.I.			
G Final Closed-in Pressure	934 P.S.I.			
H Final Hydrostatic Mud	1233 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> 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>55</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>104</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>71</u>	<u>5</u>	<u>101</u>	<u>3</u>	<u>162</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>103</u>	<u>10</u>	<u>103</u>	<u>6</u>	<u>237</u>
P 4 <u>15</u>	<u>56</u>	<u>9</u>	<u>137</u>	<u>15</u>	<u>103</u>	<u>9</u>	<u>314</u>
P 5 <u>20</u>	<u>56</u>	<u>12</u>	<u>174</u>	<u>20</u>	<u>103</u>	<u>12</u>	<u>393</u>
P 6 <u>25</u>	<u>56</u>	<u>15</u>	<u>213</u>	<u>25</u>	<u>103</u>	<u>15</u>	<u>461</u>
P 7 <u>30</u>	<u>56</u>	<u>18</u>	<u>265</u>	<u>30</u>	<u>103</u>	<u>18</u>	<u>529</u>
P 8		<u>21</u>	<u>320</u>	<u>35</u>	<u>103</u>	<u>21</u>	<u>594</u>
P 9		<u>24</u>	<u>390</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>652</u>
P10		<u>27</u>	<u>462</u>	<u>45</u>	<u>104</u>	<u>27</u>	<u>701</u>
P11		<u>30</u>	<u>536</u>			<u>30</u>	<u>744</u>
P12		<u>33</u>	<u>598</u>			<u>33</u>	<u>780</u>
P13		<u>36</u>	<u>655</u>			<u>36</u>	<u>809</u>
P14		<u>39</u>	<u>710</u>			<u>39</u>	<u>836</u>
P15		<u>42</u>	<u>764</u>			<u>42</u>	<u>856</u>
P16		<u>45</u>	<u>808</u>			<u>45</u>	<u>871</u>
P17		<u>48</u>	<u>855</u>			<u>48</u>	<u>885</u>
P18		<u>51</u>	<u>881</u>			<u>51</u>	<u>893</u>
P19		<u>54</u>	<u>906</u>			<u>54</u>	<u>899</u>
P20		<u>57</u>	<u>922</u>			<u>57</u>	<u>907</u>
		<u>60</u>	<u>933</u>			<u>60</u>	<u>912</u>
						<u>63</u>	<u>916</u>
						<u>66</u>	<u>918</u>
						<u>69</u>	<u>920</u>
						<u>72</u>	<u>923</u>
						<u>75</u>	<u>925</u>
						<u>78</u>	<u>928</u>
						<u>81</u>	<u>930</u>
						<u>84</u>	<u>932</u>
						<u>87</u>	<u>934</u>

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 3-22-76 Ticket 22040 Company Texas Oil & Gas Corp
Well Name and No. Thimesch #1 Dst No. 1 Interval Tested 2480' to 2575'
County Kingman State Kansas Sec. 18 Twp. 29S Rg. 8W

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

7:00	5 min	4" of water $\frac{1}{4}$ " choke				3,370 C.F.P.D.
7:10	15 min	5" of water $\frac{1}{4}$ " choke				3,710 C.F.P.D.
7:15	20 min	9" of water $\frac{1}{4}$ " choke				5,050 C.F.P.D.
Gas to surface in 25 minutes in second flow period. All measurements were taken with a 2" merla orifice well tester with a $\frac{1}{4}$ " choke						

GAS BOTTLE

Serial No. 618 Date Bottle Filled 3-22-76 Date to be Invoiced 3-22-76

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.

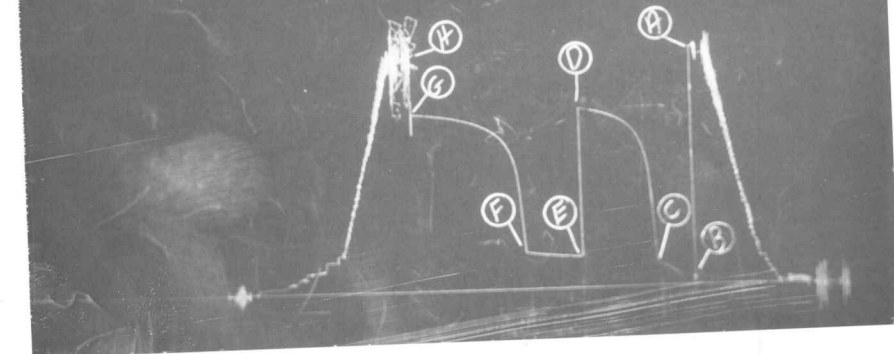
All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by G.L. Musgrove

TH# 22041

I





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

Company Texas Oil & Gas Corp. Lease & Well No. Thimesch #1
Elevation 1675 Kelly Bushing Formation Howard Effective Pay - Ft. Ticket No. 22041
Date 3-23-76 Sec. 18 Twp. 29S Range 8W County Kingman State Kansas
Test Approved by Jack D. Fox Western Representative Max Knipe
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 2712' to 2880' Total Depth 2880'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 2707 Ft. Size 6 3/4 Bottom Packer Depth 2712 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 168 Ft. Size 5 1/2 OD 2std 6 1/4 D.C. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2735 Ft. Clock No. 6899 Depth 2738 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 9:36 P. M
Tool Open I.F.P. From 9:40 PM. to 10:10 P M. - Hr. 30 Min. From (B) 49 P.S.I. To (C) 132 P.S.I.
Tool Closed I.C.I.P. From 10:10 PM. to 11:10 P M. 1 Hr. - Min (D) 1036 P.S.I.
Tool Open F.F.P. From 11:10 P M. to 11:55 P M. - Hr. 45 Min. From (E) 186 P.S.I. To (F) 211 P.S.I.
Tool Closed F.C.I.P. From 11:55 PM. to 1:25 A M. 1 Hr. 30 Min. (G) 1019 P.S.I.
Initial Hydrostatic Pressure (A) 1379 P.S.I. Final Hydrostatic Pressure (H) 1360 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Fair 4" blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 93' mud. 315' thin mud.

Reversed Out ☐ Yes ☒ No Mud Type chem Viscosity 36 Weight 9.3 Water Loss 60.8 cc. Chlorides 83,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint T.I.T. Jars: Size 4 3/4 In. Make WTC Ser. No. 404

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Xplor Drllg. Co. Length Drill Pipe 2369 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 315 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 196 Ft. including 125' D.C. in anchor.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-23-76

Test Ticket No. 22041

Recorder No. 1051

Capacity 4250

Location 2735 Ft.

Clock No. 6899

Elevation 1675 Kelly Bushing

Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1379 P.S.I.	Open Tool	9:36 P. M.	
B First Initial Flow Pressure	49 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	132 P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
D Initial Closed-in Pressure	1036 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	186 P.S.I.	Final Closed-in Pressure	90 Mins.	87 Mins.
F Second Final Flow Pressure	211 P.S.I.			
G Final Closed-in Pressure	1019 P.S.I.			
H Final Hydrostatic Mud	1360 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> 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>49</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>186</u>	<u>0</u>	<u>211</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>448</u>	<u>5</u>	<u>182</u>	<u>3</u>	<u>481</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>662</u>	<u>10</u>	<u>185</u>	<u>6</u>	<u>653</u>
P 4 <u>15</u>	<u>87</u>	<u>9</u>	<u>769</u>	<u>15</u>	<u>187</u>	<u>9</u>	<u>748</u>
P 5 <u>20</u>	<u>102</u>	<u>12</u>	<u>837</u>	<u>20</u>	<u>189</u>	<u>12</u>	<u>801</u>
P 6 <u>25</u>	<u>116</u>	<u>15</u>	<u>881</u>	<u>25</u>	<u>194</u>	<u>15</u>	<u>836</u>
P 7 <u>30</u>	<u>132</u>	<u>18</u>	<u>910</u>	<u>30</u>	<u>197</u>	<u>18</u>	<u>864</u>
P 8		<u>21</u>	<u>932</u>	<u>35</u>	<u>201</u>	<u>21</u>	<u>887</u>
P 9		<u>24</u>	<u>951</u>	<u>40</u>	<u>205</u>	<u>24</u>	<u>903</u>
P10		<u>27</u>	<u>968</u>	<u>45</u>	<u>211</u>	<u>27</u>	<u>918</u>
P11		<u>30</u>	<u>980</u>			<u>30</u>	<u>930</u>
P12		<u>33</u>	<u>989</u>			<u>33</u>	<u>940</u>
P13		<u>36</u>	<u>998</u>			<u>36</u>	<u>951</u>
P14		<u>39</u>	<u>1007</u>			<u>39</u>	<u>956</u>
P15		<u>42</u>	<u>1013</u>			<u>42</u>	<u>966</u>
P16		<u>45</u>	<u>1018</u>			<u>45</u>	<u>972</u>
P17		<u>48</u>	<u>1024</u>			<u>48</u>	<u>979</u>
P18		<u>51</u>	<u>1027</u>			<u>51</u>	<u>984</u>
P19		<u>54</u>	<u>1032</u>			<u>54</u>	<u>988</u>
P20		<u>57</u>	<u>1036</u>			<u>57</u>	<u>993</u>
						<u>60</u>	<u>997</u>
						<u>63</u>	<u>1000</u>
						<u>66</u>	<u>1002</u>
						<u>69</u>	<u>1006</u>
						<u>72</u>	<u>1009</u>
						<u>75</u>	<u>1013</u>
						<u>78</u>	<u>1015</u>
						<u>81</u>	<u>1016</u>
						<u>84</u>	<u>1017</u>
						<u>87</u>	<u>1019</u>

141# 23608

H

G

D

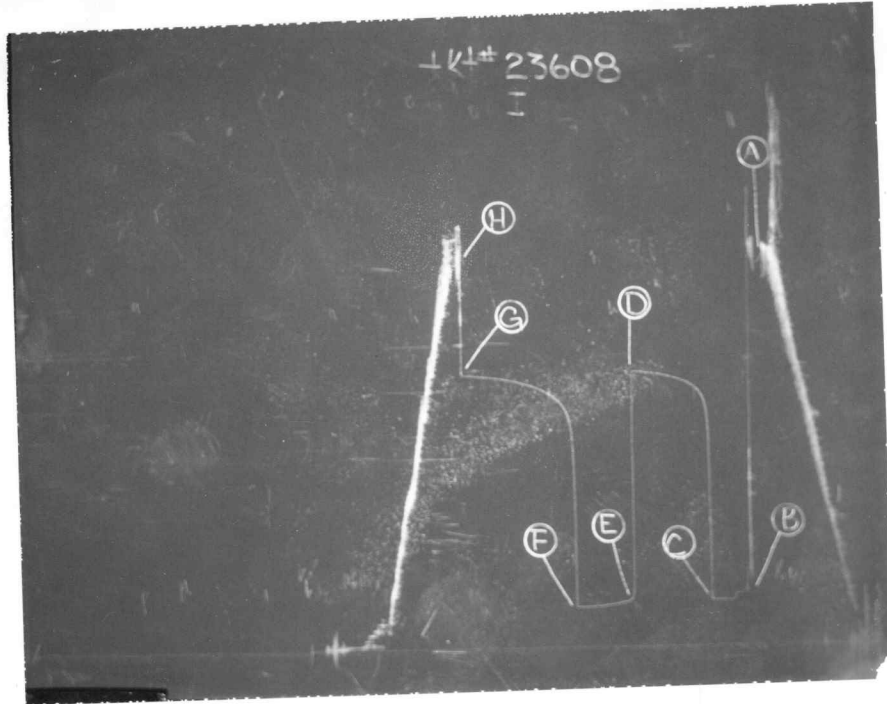
A

F

E

C

B





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

Company Texas Oil & Gas Corp. Lease & Well No. Thimesch #1
Elevation 1667 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 23608
Date 3-27-76 Sec. 18 Twp. 29S Range 8W County Kingman State Kansas
Test Approved by G.L. Musgrove Western Representative Marvin Peltier
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4169' to 4179' Total Depth 4179'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Top Packer Depth 4169 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
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 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4172 Ft. Clock No. 6894 Depth 4176 Ft. Clock No. -
Top Make Kuster Cap. 4100 No. 3354 Inside Outside Bottom Make Kuster Cap. 4100 No. 2604 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 4:27 A. M
Tool Open I.F.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. From (B) 306 P.S.I. To (C) 248 P.S.I.
Tool Closed I.C.I.P. From 5:00A M. to 6:00A M. 1 Hr. - Min (D) 1562 P.S.I.
Tool Open F.F.P. From 6:00A M. to 6:45A M. - Hr. 45 Min. From (E) 264 P.S.I. To (F) 222 P.S.I.
Tool Closed F.C.I.P. From 6:45A M. to 8:15A M. 1 Hr. 30 Min. (G) 1560 P.S.I.
Initial Hydrostatic Pressure (A) 2332 P.S.I. Final Hydrostatic Pressure (H) 2306 P.S.I. Maximum Temp. 117

INFORMATION

BLOW Gas to surface in 2 minutes.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 250' total fluid recovery 130' watery mud.
120' muddy water.

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 40 Weight 9.6 Water Loss 5.6 cc. Chlorides 16,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 4 1/2 In. Make WTC Ser. No. -

Dual Packer no Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 3834 Ft. I.D. Drill Pipe - In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 310 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 35 Ft.

Remarks: See attached sheet for gas measurements. Top 13,000 P.P.M. Chlorides
Bottom 47,000 P.P.M. chlorides



INC.

P. O. Box 1599

Wichita, Kansas 67201

Company Texas Oil & Gas Corp. Lease & Well No. Thimesch #1Elevation 1667 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 23608Date 3-27-76 Sec. 18 Twp. 29S Range 8W County Kingman State KansasTest Approved by G.L. Musgrove Western Representative Marvin PeltierFormation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4169' to 4179' Total Depth 4179'Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ NoTop Packer Depth 4169 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -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 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.RECORDERS Depth 4172 Ft. Clock No. 6894 Depth 4176 Ft. Clock No. -Top Make Kuster Cap. 4100 No. 3354 Inside Bottom Make Kuster Cap. 4100 No. 2604 InsideBelow Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - OutsideTime Set Packer 4:27 A. MTool Open I.F.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. From (B) 306 P.S.I. To (C) 248 P.S.I.Tool Closed I.C.I.P. From 5:00A M. to 6:00A M. 1 Hr. - Min (D) 1562 P.S.I.Tool Open F.F.P. From 6:00A M. to 6:45A M. - Hr. 45 Min. From (E) 264 P.S.I. To (F) 222 P.S.I.Tool Closed F.C.I.P. From 6:45A M. to 8:15A M. 1 Hr. 30 Min. (G) 1560 P.S.I.Initial Hydrostatic Pressure (A) 2332 P.S.I. Final Hydrostatic Pressure (H) 2306 P.S.I. Maximum Temp. 117

INFORMATION

BLOW Gas to surface in 2 minutes.Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 250' total fluid recovery 130' watery mud.120' muddy water.Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 40 Weight 9.6 Water Loss 5.6 cc. Chlorides 16,000 P.P.M.EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 4 1/2 In. Make WTC Ser. No. -Dual Packer no Did Packers Hold? yes Did Tool Plug? no Where? -DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 3834 Ft. I.D. Drill Pipe - In. Tool Joint Size 4 FH In.Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 310 Ft. I.D. Drill Collars 2.25 In.Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 35 Ft.

Remarks: See attached sheet for gas measurements. Top 13,000 P.P.M. Chlorides

Bottom 47,000 P.P.M. chlorides

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 3-27-76 Ticket 23608 Company Texas Oil & Gas Corp.
Well Name and No. Thimesch #1 Dst No. 3 Interval Tested 4169' - 4179'
County Kingman State Kansas Sec. 18 Twp. 29S Rg. 8W

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

4:40 AM	10 min.		20" of water			627,000 C.F.P.D.
4:50 AM	20 min.		24" of water			682,000 C.F.P.D.
5:00 AM	30 min.		26" of water			700,000 C.F.P.D.
Gas to surface in 2 minutes in pre-flow period.						

SECOND FLOW

6:10 AM	10 min.	11 PSIG	1 1/4" Choke			847,000 C.F.P.D.
6:20 AM	20 min.	9 PSIG	1 1/4" Choke			754,000 C.F.P.D.
6:30 AM	30 min.	8 PSIG	1 1/4" Choke			700,000 C.F.P.D.
6:40 AM	40 min.	8 PSIG	1 1/4" Choke			700,000 C.F.P.D.
6:45 AM	45 min.	8 PSIG	1 1/4" Choke			700,000 C.F.P.D.
Tool opened in second flow period at 6:00 AM.						

GAS BOTTLE

Serial No. 613 Date Bottle Filled 3-27-76 Date to be Invoiced 3-27-76

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 for 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 Texas Oil & Gas Corp.

Authorized by G.L. Musgrove

WESTERN TESTING CO., INC.

Pressure Data

Date 3-27-76 Test Ticket No. 23608
 Recorder No. 3354 Capacity 4100 Location 4172 Ft.
 Clock No. 6894 Elevation 1667 Ground Level Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2332	P.S.I.	4:27 A. M.	
B First Initial Flow Pressure	306	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	248	P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1562	P.S.I.	45 Mins.	45 Mins.
E Second Initial Flow Pressure	264	P.S.I.	90 Mins.	87 Mins.
F Second Final Flow Pressure	222	P.S.I.		
G Final Closed-in Pressure	1560	P.S.I.		
H Final Hydrostatic Mud	2306	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> 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 0	306	0	248	0	264	0	222
P 2 5	295	3	1323	5	249	3	1262
P 3 10	284	6	1409	10	243	6	1340
P 4 15	249	9	1447	15	236	9	1376
P 5 20	248	12	1466	20	230	12	1401
P 6 25	248	15	1481	25	228	15	1420
P 7 30	248	18	1496	30	226	18	1437
P 8		21	1504	35	224	21	1451
P 9		24	1513	40	223	24	1464
P10		27	1521	45	222	27	1475
P11		30	1528			30	1483
P12		33	1534			33	1494
P13		36	1538			36	1500
P14		39	1544			39	1507
P15		42	1546			42	1513
P16		45	1551			45	1517
P17		48	1555			48	1519
P18		51	1557			51	1527
P19		54	1559			54	1534
P20		57	1561			57	1536
WTC - 4		60	1562			60	1540
						63	1542
						66	1544
						69	1547
						72	1550
						75	1553
						78	1555
						81	1557
						84	1559
						87	1560

Gas Production

B.T. Gauge Numbers			Ticket Number		23608
Initial Hydrostatic			Pressure		2332
Final Hydrostatic			Elevation		1667 Ground Level
1st Flow	Initial	Time	Production Rate	Initial	m cu. ft.
	Final	---		Final	m cu. ft.
		30			
Initial Closed In Pressure			Hole Size		7 7/8 in.
			Footage Tested		10 ft.
2nd Flow	Initial	---	Mud Weight		9.6 lbs. gal.
	Final	45	Gas Viscosity		cp
Final Closed In Pressure			Gas Gravity		—
Extrapolated Static Pressure	Initial		Gas Compressibility		—
	Final				
Slope Psi ² /cycle	Initial				
	Final		813,824		

Remarks: _____

SUMMARY		BT Gauge Number Depth		
Product	Equation	Initial	Final	Units
Transmissability	$\frac{Kh}{\mu} = \frac{1637 Q_g ZT}{m}$		666.202	md. ft. cp
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		11.991	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$		1.199	md.
	$K_1 = \frac{Kh}{h_1}$		1.199	md.
Indicated Flow Capacity	$(Kh)_a = \frac{3200 Q_g \mu ZT \log(0.472 b/r_w)}{P_a^2 - P_r^2}$		1.417	md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{Kh}{(Kh)_a}$		8.462	—
Indicated Flow Rate	$OF_1 = \frac{Q_g}{P_a^2 - P_r^2}$		71.319	MCFD
			70.657	MCFD
Theoretical Potential Rate	$OF_3 = OF_1 DR \quad \text{Max.}$		603.501	MCFD
	$OF_4 = OF_2 DR \quad \text{Min.}$		597.899	MCFD
Approx. Radius of Investigation	$b \approx \sqrt{Kt} \text{ or } \sqrt{Kt_0}$		7.345	ft.
	$b_1 \approx \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$		7.345	ft.
Potentiometric Surface *	$Pot. = (EI - GD) + (2.319 Ps)$			ft.

NOTICE:

These calculations are based upon information furnished by you and taken from Drill Stem Tests pressure charts, and are furnished for your information. In furnishing such calculations and evaluations based thereon, Western Testing Co., Inc., is merely expressing its opinion. You agree that Western Testing Co., Inc., make no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc., shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS

Gas Production

B.T. Gauge Numbers				Ticket Number		
Initial Hydrostatic			Pressure		Elevation	ft.
Final Hydrostatic					Production Rate	m cu. ft.
1st Flow	Initial	Time — — — —			Initial	m cu. ft.
	Final				Final	m cu. ft.
			Hole Size			in.
Initial Closed In Pressure			Footage Tested			ft.
2nd Flow	Initial	— — — —	Mud Weight			lbs. gal.
	Final		Gas Viscosity			cp
Final Closed In Pressure			Gas Gravity			—
Extrapolated Static Pressure	Initial		Gas Compressibility			—
	Final					
Slope Psi ² /cycle	Initial					
	Final		813,824			

Remarks: _____

SUMMARY		BT Gauge Number Depth		
Product	Equation	Initial	Final	Units
Transmissability	$\frac{Kh}{\mu} = \frac{1637 Q_r ZT}{m}$		666.202	md. ft. cp
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		11.991	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$		1.199	md.
	$K_1 = \frac{Kh}{h_1}$		1.199	md.
Indicated Flow Capacity	$(Kh)_s = \frac{3200 Q_r \mu ZT \log(0.472 b/r_w)}{P_b^2 - P_r^2}$		1.417	md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{Kh}{(Kh)_s}$		8.462	—
Indicated Flow Rate	$OF_1 = \frac{Q_r}{P_b^2 - P_r^2} P_b^2$		71.319	MCFD
			70.657	MCFD
Theoretical Potential Rate	$OF_3 = OF_1 DR \quad \text{Max.}$		603.501	MCFD
	$OF_4 = OF_2 DR \quad \text{Min.}$		597.899	MCFD
Approx. Radius of Investigation	$b \approx \sqrt{Kt} \text{ or } \sqrt{Kt_0}$		7.345	ft.
	$b_1 \approx \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$		7.345	ft.
Potentiometric Surface *	$Pot. = (EI - GD) + (2.319 Ps)$			ft.

NOTICE:

These calculations are based upon information furnished by you and taken from Drill Stem Tests pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Western Testing Co., Inc., is merely expressing its opinion. You agree that Western Testing Co., Inc., make no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc., shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.