



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Zorger Oil Company Lease & Well No. Harris #1
Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 746
Date 6/22/78 Sec. 16 Twp. 28S Range 13W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative Jim Wondra
Formation Test No. 1 Interval Tested from 2651' ft. to 2687' ft. Total Depth 2687' ft.
Packer Depth 2646 ft. Size 6 3/4 in. Packer Depth 2651 ft. Size 6 3/4 in.
Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 2677 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 2680 ft. Recorder Number 3351 Cap. 4400
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor H-30 Rig #1 Drill Collar Length -- I. D. -- in.
Mud Type Gel Viscosity 29 Weight Pipe Length 409 I. D. 2.7 in.
Weight 9.7 Water Loss 10.2 cc. Drill Pipe Length 2213 I. D. 3.8 in.
Chlorides 91,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make WTC Serial Number 410 Anchor Length 36 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Fair blow decreased to weak blow on initial flow period. Weak blow throughout final flow period.

Recovered 250 ft. of thin mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Tool slid 25' to setting point on first opening.
Tool slid 6' more on second opening.
Tool was setting 33' off bottom.

Time Set Packer(s) 1:50 A.M. Time Started Off Bottom 4:35 P.M. Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1387 P.S.I.
Initial Flow Period Minutes 30 (B) 127 P.S.I. to (C) 159 P.S.I.
Initial Closed In Period Minutes 45 (D) 1199 P.S.I.
Final Flow Period Minutes 45 (E) 212 P.S.I. to (F) 178 P.S.I.
Final Closed In Period Minutes 45 (G) 1009 P.S.I.
Final Hydrostatic Pressure (H) 1366 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/22/78

Test Ticket No. 746

Recorder No. 2607

Capacity 4150

Location 2677 Ft.

Clock No. ----- Elevation -----

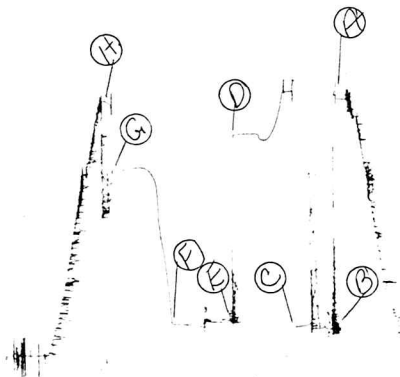
Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1387</u> P.S.I.	Open Tool	<u>1:50A</u> M	
B First Initial Flow Pressure	<u>127</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>159</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1199</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>212</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>178</u> P.S.I.			
G Final Closed-in Pressure	<u>1009</u> P.S.I.			
H Final Hydrostatic Mud	<u>1366</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>15</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 <u>0</u>	<u>127</u>	<u>0</u>	<u>159</u>	<u>0</u>	<u>212</u>	<u>0</u>	<u>178</u>
P 2 <u>5</u>	<u>146</u>	<u>3</u>	<u>918</u>	<u>5</u>	<u>193</u>	<u>3</u>	<u>371</u>
P 3 <u>10</u>	<u>148</u>	<u>6</u>	<u>1431</u>	<u>10</u>	<u>186</u>	<u>6</u>	<u>544</u>
P 4 <u>15</u>	<u>148</u>	<u>9</u>	<u>1431</u>	<u>15</u>	<u>189</u>	<u>9</u>	<u>662</u>
P 5 <u>20</u>	<u>165</u>	<u>12</u>	<u>1345</u>	<u>20</u>	<u>188</u>	<u>12</u>	<u>896</u>
P 6 <u>25</u>	<u>159</u>	<u>15</u>	<u>1259</u>	<u>25</u>	<u>165</u>	<u>15</u>	<u>977</u>
P 7 <u>30</u>	<u>159</u>	<u>18</u>	<u>1207</u>	<u>30</u>	<u>171</u>	<u>18</u>	<u>1013</u>
P 8		<u>21</u>	<u>1178</u>	<u>35</u>	<u>175</u>	<u>21</u>	<u>1027</u>
P 9		<u>24</u>	<u>1167</u>	<u>40</u>	<u>176</u>	<u>24</u>	<u>1029</u>
P10		<u>27</u>	<u>1176</u>	<u>45</u>	<u>178</u>	<u>27</u>	<u>1027</u>
P11		<u>30</u>	<u>1205</u>			<u>30</u>	<u>1023</u>
P12		<u>33</u>	<u>1203</u>			<u>33</u>	<u>1017</u>
P13		<u>36</u>	<u>1204</u>			<u>36</u>	<u>1015</u>
P14		<u>39</u>	<u>1204</u>			<u>39</u>	<u>1013</u>
P15		<u>42</u>	<u>1201</u>			<u>42</u>	<u>1010</u>
P16		<u>45</u>	<u>1199</u>			<u>45</u>	<u>1009</u>
P17							
P18							
P19							
P20							

TRT # 746
I.





P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Zorger Oil Co. Lease & Well No. Harris #1
Elevation - Formation - Effective Pay - Ft. Ticket No. 747
Date 6-22-78 Sec. 16 Twp. 28S Range 13W County Pratt State Kansas
Test Approved by Pete J. Stubbs Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 2684 ft. to 2720 ft. Total Depth 2720 ft.
Packer Depth 2679 ft. Size 6 3/4 in. Packer Depth 2684 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2710 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 2713 ft. Recorder Number 3361 Cap. 4400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Dr1g. (#7) Drill Collar Length - I. D. - in.
Mud Type Gel Viscosity 38 Weight Pipe Length 409 I. D. 2.7 in.
Weight 10.0 Water Loss 4.4 cc. Drill Pipe Length - I. D. 3.8 in.
Chlorides 110,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make WTC Serial Number 410 Anchor Length 36 ft. Size 5 1/2 OD in.
Did Well Flow? Yes Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Weak to strong blow on initial flow period. Strong blow throughout final flow period.
Gas to surface in 1 minute on final flow period. See attached sheet for gas measurments.

Recovered 310 ft. of gassy watery mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:35 ~~A.M.~~ P.M. Time Started Off Bottom 4:20 ~~A.M.~~ P.M. Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1445 P.S.I.
Initial Flow Period Minutes 45 (B) 118 P.S.I. to (C) 101 P.S.I.
Initial Closed In Period Minutes 60 (D) 1003 P.S.I.
Final Flow Period Minutes 60 (E) 116 P.S.I. to (F) 148 P.S.I.
Final Closed In Period Minutes 60 (G) 1011 P.S.I.
Final Hydrostatic Pressure (H) 1435 P.S.I.



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

GAS FLOW REPORT

Date 6-22-78 Ticket 747 Company Zorger Oil Co.
Well Name and No. Harris #1 Dst No. 2 Interval Tested 2684' - 2720'
County Pratt State Kansas Sec. 16 Twp. 28S Rg. 13W

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
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PRE FLOW

SECOND FLOW

2:31PM	10 min.	12" of water	1/4" orifice			5,860 C.F.P.D.
2:41PM	20 min.	20" of water	1/4" orifice			7,510 C.F.P.D.
2:51PM	30 min.	24" of water	1/4" orifice			8,220 C.F.P.D.
3:01PM	40 min.	30" of water	1/4" orifice			9,200 C.F.P.D.
3:11PM	50 min.	36" of water	1/4" orifice			10,100 C.F.P.D.
3:16PM	55 min.	36" of water	1/4" orifice			10,100 C.F.P.D.

Gas to surface in 1 minute at 2:21 P.M. , tool opened at 2:20.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced -

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 Zorger Oil Co.

Authorized by Pete Stubbs

WESTERN TESTING CO., INC.

Pressure Data

Date 6-22-78

Test Ticket No. 747

Recorder No. 2607

Capacity 4150

Location 2710

Clock No. - Elevation -

Well Temperature 99

Point

Pressure

Time Given

Time Computed

A Initial Hydrostatic Mud 1445 P.S.I.
 B First Initial Flow Pressure 118 P.S.I.
 C First Final Flow Pressure 101 P.S.I.
 D Initial Closed-in Pressure 1003 P.S.I.
 E Second Initial Flow Pressure 116 P.S.I.
 F Second Final Flow Pressure 148 P.S.I.
 G Final Closed-in Pressure 1011 P.S.I.
 H Final Hydrostatic Mud 1435 P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

12:35P. M

45

Mins.

45

Mins.

60

Mins.

60

Mins.

60

Mins.

60

Mins.

60

Mins.

60

Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 9 Inc.

of 5 mins. and a

final inc. of 0 Min.

Initial Shut-In

Breakdown: 20 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: 20 Inc.

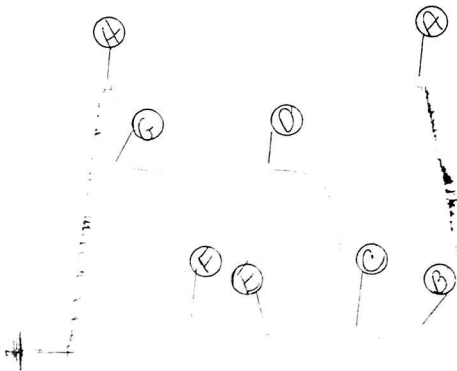
of 3 mins. and a

final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>118</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>148</u>
P 2 <u>5</u>	<u>87</u>	<u>3</u>	<u>186</u>	<u>5</u>	<u>106</u>	<u>3</u>	<u>443</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>337</u>	<u>10</u>	<u>114</u>	<u>6</u>	<u>666</u>
P 4 <u>15</u>	<u>81</u>	<u>9</u>	<u>496</u>	<u>15</u>	<u>121</u>	<u>9</u>	<u>835</u>
P 5 <u>20</u>	<u>81</u>	<u>12</u>	<u>635</u>	<u>20</u>	<u>126</u>	<u>12</u>	<u>902</u>
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>748</u>	<u>25</u>	<u>131</u>	<u>15</u>	<u>941</u>
P 7 <u>30</u>	<u>84</u>	<u>18</u>	<u>839</u>	<u>30</u>	<u>135</u>	<u>18</u>	<u>969</u>
P 8 <u>35</u>	<u>89</u>	<u>21</u>	<u>887</u>	<u>35</u>	<u>140</u>	<u>21</u>	<u>979</u>
P 9 <u>40</u>	<u>97</u>	<u>24</u>	<u>921</u>	<u>40</u>	<u>144</u>	<u>24</u>	<u>990</u>
P10 <u>45</u>	<u>101</u>	<u>27</u>	<u>944</u>	<u>45</u>	<u>146</u>	<u>27</u>	<u>996</u>
P11		<u>30</u>	<u>960</u>	<u>50</u>	<u>147</u>	<u>30</u>	<u>1000</u>
P12		<u>33</u>	<u>973</u>	<u>55</u>	<u>148</u>	<u>33</u>	<u>1004</u>
P13		<u>36</u>	<u>979</u>	<u>60</u>	<u>148</u>	<u>36</u>	<u>1006</u>
P14		<u>39</u>	<u>985</u>			<u>39</u>	<u>1008</u>
P15		<u>42</u>	<u>992</u>			<u>42</u>	<u>1009</u>
P16		<u>45</u>	<u>994</u>			<u>45</u>	<u>1010</u>
P17		<u>48</u>	<u>996</u>			<u>48</u>	<u>1011</u>
P18		<u>51</u>	<u>1000</u>			<u>51</u>	<u>1011</u>
P19		<u>54</u>	<u>1000</u>			<u>54</u>	<u>1011</u>
P20		<u>57</u>	<u>1001</u>			<u>57</u>	<u>1011</u>
		<u>60</u>	<u>1003</u>			<u>60</u>	<u>1011</u>

TKT # 747

I.





P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Zorger Oil Co. Lease & Well No. Harris #1
Elevation - Formation - Effective Pay - Ft. Ticket No. 748
Date 6-23-78 Sec. 16 Twp. 28S Range 13W County Pratt State Kansas
Test Approved by Pete Stubbs Western Representative Jim Wondra
Formation Test No. 3 Interval Tested from 2897 ft. to 2930 ft. Total Depth 2930 ft.
Packer Depth 2892 ft. Size 6 3/4 in. Packer Depth 2897 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2920 ft. Recorder Number 2706 Cap. 4150
Bottom Recorder Depth (Outside) 2923 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. (#7) Drill Collar Length - I. D. - in.
Mud Type Gel Viscosity 37 Weight Pipe Length 409 I. D. 2.7 in.
Weight 9.8 Water Loss 15.8 cc. Drill Pipe Length 2467 I. D. 3.8 in.
Chlorides 111,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make - Serial Number - Anchor Length 33 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Strong blow throughout test. Gas to surface in 2 minutes on initial flow period. See attached sheet for gas measurements.

Recovered 40 ft. of drilling mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:05 A.M. Time Started Off Bottom 2:05 ~~A.M.~~ P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1553 P.S.I.
Initial Flow Period Minutes 30 (B) 199 P.S.I. to (C) 129 P.S.I.
Initial Closed In Period Minutes 60 (D) 898 P.S.I.
Final Flow Period Minutes 90 (E) 207 P.S.I. to (F) 91 P.S.I.
Final Closed In Period Minutes 60 (G) 847 P.S.I.
Final Hydrostatic Pressure (H) 1534 P.S.I.



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

GAS FLOW REPORT

Date 6-23-78 Ticket 748 Company Zorger Oil Co.
Well Name and No. Harris #1 Dst No. 3 Interval Tested 2897' - 2930'
County Pratt State Kansas Sec. 16 Twp. 28S Rg. 13W

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						
10:12AM	5 min.		1 1/2 lbs.	2" orifice		887,000 C.F.P.D.
10:17AM	10 min.		1 1/2 lbs.	2" orifice		887,000 C.F.P.D.
10:27AM	20 min.		1 1/2 lbs.	2" orifice		887,000 C.F.P.D.
10:32AM	25 min.		1 1/2 lbs.	2" orifice		887,000 C.F.P.D.
Gas to surface in 2 minutes, at 10:07A.M.						
SECOND FLOW						
11:45AM	10 min.		1 1/2 lbs.	2" orifice		887,000 C.F.P.D.
11:55AM	20 min.		1 lbs.	2" orifice		734,000 C.F.P.D.
12:05PM	30 min.		1 lbs.	2" orifice		734,000 C.F.P.D.
12:15PM	40 min.		1 lbs.	2" orifice		734,000 C.F.P.D.
12:25PM	50 min.		1/2 lbs.	2" orifice		517,000 C.F.P.D.
12:35PM	60 min.		1/2 lbs.	2" orifice		517,000 C.F.P.D.
12:45PM	70 min.		1/2 lbs.	2" orifice		517,000 C.F.P.D.
12:55PM	80 min.		1/2 lbs.	2" orifice		517,000 C.F.P.D.
1:05PM	90 min.		1/2 lbs.	2" orifice		517,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced -

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 Zorger Oil Co.

Authorized by Pete Stubbs

WESTERN TESTING CO., INC.

Pressure Data

Date 6-23-78

Test Ticket No. 748

Recorder No. 2607

Capacity 4150

Location 2920

Clock No. - Elevation -

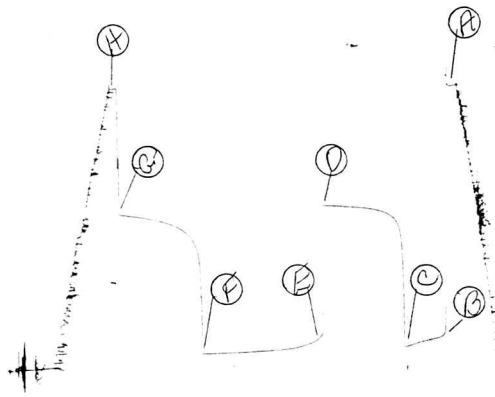
Well Temperature 100

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1553 P.S.I.	Open Tool	10:05A.	M
B First Initial Flow Pressure	199 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	129 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	898 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E Second Initial Flow Pressure	207 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	91 P.S.I.			
G Final Closed-in Pressure	847 P.S.I.			
H Final Hydrostatic Mud	1534 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>17</u> Inc.		Breakdown: <u>20</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>199</u>	<u>0</u>	<u>129</u>	<u>0</u>	<u>207</u>	<u>0</u>	<u>91</u>
P 2 <u>5</u>	<u>178</u>	<u>3</u>	<u>708</u>	<u>5</u>	<u>163</u>	<u>3</u>	<u>596</u>
P 3 <u>10</u>	<u>169</u>	<u>6</u>	<u>800</u>	<u>10</u>	<u>146</u>	<u>6</u>	<u>683</u>
P 4 <u>15</u>	<u>161</u>	<u>9</u>	<u>829</u>	<u>15</u>	<u>133</u>	<u>9</u>	<u>725</u>
P 5 <u>20</u>	<u>148</u>	<u>12</u>	<u>847</u>	<u>20</u>	<u>123</u>	<u>12</u>	<u>748</u>
P 6 <u>25</u>	<u>137</u>	<u>15</u>	<u>858</u>	<u>25</u>	<u>118</u>	<u>15</u>	<u>764</u>
P 7 <u>30</u>	<u>129</u>	<u>18</u>	<u>864</u>	<u>30</u>	<u>114</u>	<u>18</u>	<u>777</u>
P 8		<u>21</u>	<u>870</u>	<u>35</u>	<u>111</u>	<u>21</u>	<u>787</u>
P 9		<u>24</u>	<u>875</u>	<u>40</u>	<u>108</u>	<u>24</u>	<u>797</u>
P10		<u>27</u>	<u>879</u>	<u>45</u>	<u>106</u>	<u>27</u>	<u>804</u>
P11		<u>30</u>	<u>883</u>	<u>50</u>	<u>104</u>	<u>30</u>	<u>810</u>
P12		<u>33</u>	<u>887</u>	<u>55</u>	<u>99</u>	<u>33</u>	<u>816</u>
P13		<u>36</u>	<u>888</u>	<u>60</u>	<u>98</u>	<u>36</u>	<u>822</u>
P14		<u>39</u>	<u>889</u>	<u>65</u>	<u>96</u>	<u>39</u>	<u>827</u>
P15		<u>42</u>	<u>891</u>	<u>70</u>	<u>95</u>	<u>42</u>	<u>829</u>
P16		<u>45</u>	<u>891</u>	<u>75</u>	<u>94</u>	<u>45</u>	<u>835</u>
P17		<u>48</u>	<u>893</u>	<u>80</u>	<u>93</u>	<u>48</u>	<u>839</u>
P18		<u>51</u>	<u>895</u>	<u>85</u>	<u>91</u>	<u>51</u>	<u>841</u>
P19		<u>54</u>	<u>896</u>			<u>54</u>	<u>843</u>
P20		<u>57</u>	<u>897</u>			<u>57</u>	<u>845</u>
		<u>60</u>	<u>898</u>			<u>60</u>	<u>847</u>

TKT # 748
I.





P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Zorger Oil Co. Lease & Well No. Harris #1
Elevation - Formation - Effective Pay - Ft. Ticket No. 749
Date 6-24-78 Sec. 16 Twp. 28S Range 13W County Pratt State Kansas
Test Approved by Pete Stubbs Western Representative Jim Wondra
Formation Test No. 4 Interval Tested from 3102 ft. to 3130 ft. Total Depth 3130 ft.
Packer Depth 3097 ft. Size 6 3/4 in. Packer Depth 3102 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3120 ft. Recorder Number 2706 Cap. 4150
Bottom Recorder Depth (Outside) 3123 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Drlg. (#7) Drill Collar Length - I. D. - in.
Mud Type Gel Viscosity 39 Weight Pipe Length 409 I. D. 2.7 in.
Weight 9.9 Water Loss 8.0 cc. Drill Pipe Length - I. D. 3.8 in.
Chlorides 110,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make - Serial Number - Anchor Length 28 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Weak blow throughout test.

Recovered 65 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Tool slid 8' to bottom.

Time Set Packer(s) 8:50 ~~A.M.~~ P.M. Time Started Off Bottom 12:35 ~~A.M.~~ P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1651 P.S.I.
Initial Flow Period Minutes 45 (B) 116 P.S.I. to (C) 77 P.S.I.
Initial Closed In Period Minutes 60 (D) 132 P.S.I.
Final Flow Period Minutes 60 (E) 108 P.S.I. to (F) 77 P.S.I.
Final Closed In Period Minutes 60 (G) 77 P.S.I.
Final Hydrostatic Pressure (H) 1605 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-24-78

Test Ticket No. 749

Recorder No. 2607

Capacity 4150

Location 3120

Clock No. - Elevation -

Well Temperature 100

Point	Pressure	
A Initial Hydrostatic Mud	<u>1651</u>	P.S.I.
B First Initial Flow Pressure	<u>116</u>	P.S.I.
C First Final Flow Pressure	<u>77</u>	P.S.I.
D Initial Closed-in Pressure	<u>132</u>	P.S.I.
E Second Initial Flow Pressure	<u>108</u>	P.S.I.
F Second Final Flow Pressure	<u>77</u>	P.S.I.
G Final Closed-in Pressure	<u>77</u>	P.S.I.
H Final Hydrostatic Mud	<u>1605</u>	P.S.I.

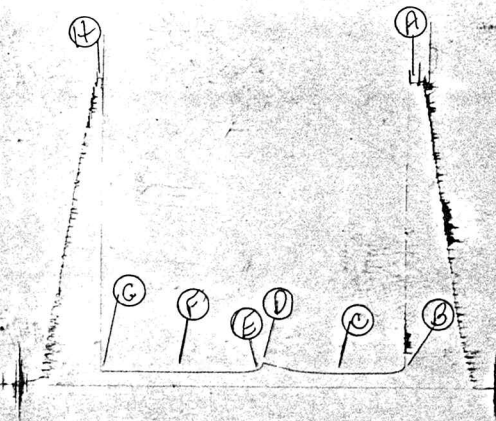
	Time Given	Time Computed
Open Tool	<u>8:50A.</u>	<u>M</u>
First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.

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>12</u> Inc.		Breakdown: <u>20</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>116</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>87</u>	<u>3</u>	<u>77</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>77</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>77</u>	<u>10</u>	<u>80</u>	<u>6</u>	<u>77</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>77</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>77</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>77</u>	<u>20</u>	<u>77</u>	<u>12</u>	<u>77</u>
P 6 <u>25</u>	<u>77</u>	<u>15</u>	<u>78</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>77</u>
P 7 <u>30</u>	<u>77</u>	<u>18</u>	<u>80</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>77</u>
P 8 <u>35</u>	<u>77</u>	<u>21</u>	<u>82</u>	<u>35</u>	<u>77</u>	<u>21</u>	<u>77</u>
P 9 <u>40</u>	<u>77</u>	<u>24</u>	<u>82</u>	<u>40</u>	<u>77</u>	<u>24</u>	<u>77</u>
P10 <u>45</u>	<u>77</u>	<u>27</u>	<u>84</u>	<u>45</u>	<u>77</u>	<u>27</u>	<u>77</u>
P11		<u>30</u>	<u>87</u>	<u>50</u>	<u>77</u>	<u>30</u>	<u>77</u>
P12		<u>33</u>	<u>91</u>	<u>55</u>	<u>77</u>	<u>33</u>	<u>77</u>
P13		<u>36</u>	<u>95</u>	<u>60</u>	<u>77</u>	<u>36</u>	<u>77</u>
P14		<u>39</u>	<u>104</u>			<u>39</u>	<u>77</u>
P15		<u>42</u>	<u>108</u>			<u>42</u>	<u>77</u>
P16		<u>45</u>	<u>112</u>			<u>45</u>	<u>77</u>
P17		<u>48</u>	<u>117</u>			<u>48</u>	<u>77</u>
P18		<u>51</u>	<u>123</u>			<u>51</u>	<u>77</u>
P19		<u>54</u>	<u>128</u>			<u>54</u>	<u>77</u>
P20		<u>57</u>	<u>132</u>			<u>57</u>	<u>77</u>
						<u>60</u>	<u>77</u>

TRT # 749

I.





P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Zorger Oil Company Lease & Well No. Harris #1
Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 750
Date 6/25/78 Sec. 16 Twp. 28S Range 13W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative Jim Wondra
Formation Test No. 5 Interval Tested from 3193' ft. to 3250' ft. Total Depth 3250' ft.
Packer Depth 3188 ft. Size 6 3/4 in. Packer Depth 3193 ft. Size 6 3/4 in.
Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 3240 ft. Recorder Number 2706 Cap. 4150
Bottom Recorder Depth (Outside) 3243 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor H-30 Rig # #7 Drill Collar Length -- I. D. -- in.
Mud Type gel Viscosity 39 Weight Pipe Length 409 I. D. 2.7 in.
Weight 9.9 Water Loss 8.0 cc. Drill Pipe Length 2763 I. D. 3.8 in.
Chlorides 110,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make ----- Serial Number ----- Anchor Length 57 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Strong blow throughout flow periods.

Recovered 550 ft. of heavy foamy water

Recovered 775 ft. of salt water

Recovered 120 ft. of gas in pipe (119,000 PPM)

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:15 A.M. ~~P.M.~~ Time Started Off Bottom 5:00 A.M. ~~P.M.~~ Maximum Temperature 112
Initial Hydrostatic Pressure (A) 1721 P.S.I.
Initial Flow Period Minutes 45 (B) 309 P.S.I. to (C) 352 P.S.I.
Initial Closed In Period Minutes 60 (D) 1205 P.S.I.
Final Flow Period Minutes 60 (E) 415 P.S.I. to (F) 523 P.S.I.
Final Closed In Period Minutes 60 (G) 1191 P.S.I.
Final Hydrostatic Pressure (H) 1685 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/25/78 Test Ticket No. 750
 Recorder No. 2607 Capacity 4150 Location 3240 Ft.
 Clock No. ----- Elevation ----- Well Temperature 112 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1721 P.S.I. Open Tool 1:15A M
 B First Initial Flow Pressure 309 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
 C First Final Flow Pressure 352 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1205 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 415 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 523 P.S.I.
 G Final Closed-in Pressure 1191 P.S.I.
 H Final Hydrostatic Mud 1685 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>309</u>	<u>0</u>	<u>352</u>	<u>0</u>	<u>415</u>	<u>0</u>	<u>523</u>
P 2 <u>5</u>	<u>309</u>	<u>3</u>	<u>445</u>	<u>5</u>	<u>405</u>	<u>3</u>	<u>619</u>
P 3 <u>10</u>	<u>290</u>	<u>6</u>	<u>594</u>	<u>10</u>	<u>411</u>	<u>6</u>	<u>748</u>
P 4 <u>15</u>	<u>286</u>	<u>9</u>	<u>754</u>	<u>15</u>	<u>426</u>	<u>9</u>	<u>847</u>
P 5 <u>20</u>	<u>295</u>	<u>12</u>	<u>885</u>	<u>20</u>	<u>439</u>	<u>12</u>	<u>927</u>
P 6 <u>25</u>	<u>300</u>	<u>15</u>	<u>981</u>	<u>25</u>	<u>449</u>	<u>15</u>	<u>985</u>
P 7 <u>30</u>	<u>307</u>	<u>18</u>	<u>1042</u>	<u>30</u>	<u>460</u>	<u>18</u>	<u>1027</u>
P 8 <u>35</u>	<u>324</u>	<u>21</u>	<u>1075</u>	<u>35</u>	<u>472</u>	<u>21</u>	<u>1061</u>
P 9 <u>40</u>	<u>337</u>	<u>24</u>	<u>1107</u>	<u>40</u>	<u>483</u>	<u>24</u>	<u>1088</u>
P10 <u>45</u>	<u>352</u>	<u>27</u>	<u>1127</u>	<u>45</u>	<u>496</u>	<u>27</u>	<u>1105</u>
P11		<u>30</u>	<u>1142</u>	<u>50</u>	<u>508</u>	<u>30</u>	<u>1119</u>
P12		<u>33</u>	<u>1155</u>	<u>55</u>	<u>519</u>	<u>33</u>	<u>1134</u>
P13		<u>36</u>	<u>1165</u>	<u>60</u>	<u>523</u>	<u>36</u>	<u>1144</u>
P14		<u>39</u>	<u>1173</u>			<u>39</u>	<u>1155</u>
P15		<u>42</u>	<u>1180</u>			<u>42</u>	<u>1163</u>
P16		<u>45</u>	<u>1184</u>			<u>45</u>	<u>1169</u>
P17		<u>48</u>	<u>1188</u>			<u>48</u>	<u>1176</u>
P18		<u>51</u>	<u>1194</u>			<u>51</u>	<u>1180</u>
P19		<u>54</u>	<u>1199</u>			<u>54</u>	<u>1184</u>
P20		<u>57</u>	<u>1201</u>			<u>57</u>	<u>1186</u>
		<u>60</u>	<u>1205</u>			<u>60</u>	<u>1191</u>

TKT # 750
I.

