

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drlg. Inc.

Lease and Well No. Buerkle "T" Well #1

County Finney

State Kansas

Date 11-11-71

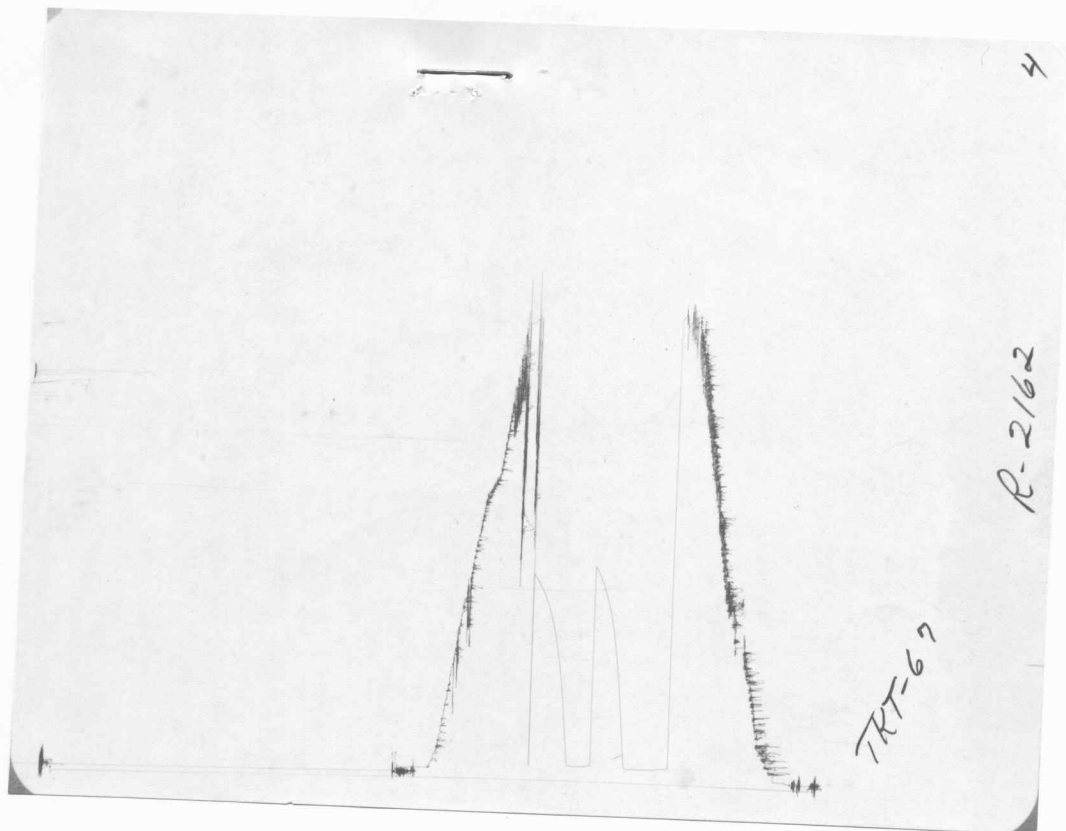
Formation Test No. 1 Total Depth 4080' Elev. _____
Interval Tested 4049' To 4080' Anchor Length 31'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.3 Viscosity 35 Water Loss 7 c.c. Bottom Hole Temp. _____ ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 67

RECOVERY

Blow: Weak 7 mins.

Recovery: 5' of mud

Lease and Well No. BUERKLE T Well #1 Sec 1 Twn 21-S Rg 34-W SE SW
Formation Test No. 1



Tool Open: 1st Flow 30 mins: Shut-in Initial 30 min: 2nd Flow 15 min: Shut-in Final 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2102</u>	<u>2107</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>69</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>66</u>
(D) Initial Shut-in Pressure	<u>969</u>	<u>976</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>73</u>
(F) Final 2nd Flow Pressure	<u>69</u>	<u>73</u>
(G) Final Shut-in Pressure	<u>934</u>	<u>934</u>
(H) Final Hydrostatic Pressure	<u>2084</u>	<u>2093</u>

Ticket # 67

THUNDERBIRD DRLG., INC.

DATE 11-11-71

TESTING DIVISION

TICKET N^o **67**SEC. 1 TWN 21-S RG 34-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SE SW

WICHITA, KANSAS 67218

TEST NO. 1COMPANY Thunderbird Drlg. Inc.ADDRESS Box 18407; Wichita, Ks. 67218LEASE Buerkle I WELL NO. 1 COUNTY Finney STATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

GENERAL INFORMATION				PRESSURE DATA & TIME	
				FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>4 1/2" F.H.</u>	HOLE SIZE <u>7 7/8"</u>	PACKER O.D. <u>6 3/4"</u>		INITIAL HYDROSTATIC <u>2102</u>	<u>2107</u>
ELEV. _____	TOTAL DEPTH <u>4080'</u>			INITIAL 1ST FLOW <u>69</u>	<u>69</u>
TESTED FROM <u>4049'</u>	TO <u>4080'</u>			FINAL 1ST FLOW <u>69</u>	<u>66</u>
ANCHOR LENGTH BELOW <u>31'</u>	BETWEEN <u>✓</u>			INITIAL SHUT-IN <u>969</u>	<u>976</u>
TOOL OPEN 1ST FLOW <u>3:45</u> A.M.	P.M. _____			INITIAL 2ND FLOW <u>69</u>	<u>73</u>
TOOL CLOSED INITIAL SHUT-IN <u>4:15</u> A.M.	P.M. _____			FINAL 2ND FLOW <u>69</u>	<u>73</u>
TOOL OPEN 2ND FLOW <u>4:45</u> A.M.	P.M. _____			FINAL SHUT-IN <u>934</u>	<u>934</u>
TOOL CLOSED FINAL SHUT-IN <u>5:00</u> A.M.	P.M. _____			FINAL HYDROSTATIC <u>2084</u>	<u>2093</u>
MUD WT <u>9.3</u>	VISCOSITY <u>35</u>	W.L. <u>7</u> C.C.		TOOL OPEN: 1ST FLOW _____	HR. <u>30</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE _____			INITIAL SHUT-IN _____	HR. <u>30</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>			2ND FLOW _____	HR. <u>15</u> MIN.
LENGTH WEIGHT PIPE <u>1044'</u>	I.D. <u>2.76</u>			FINAL SHUT-IN _____	HR. <u>30</u> MIN.
SUCCESSFUL TEST NO. <u>1</u>	MISRUN NO. <u>✓</u>			TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>3</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>				

TYPE BLOW Weak 7 mins.RECOVERY: 5' of mudEXTRA EQUIPMENT NoneAPPROVED BY: E. B. Donnelly THUNDERBIRD DRLG., INC.TESTER: Ed CookFORMATION TESTED K.C.

OPERATOR TIME: _____

SHALL NOT BE LIABLE FOR ANY 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 FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>255.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>255.00</u>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drlg. Inc.

Lease and Well No. Buerkle "I" Well #1

County Finney State Kansas

Date 11-12-71

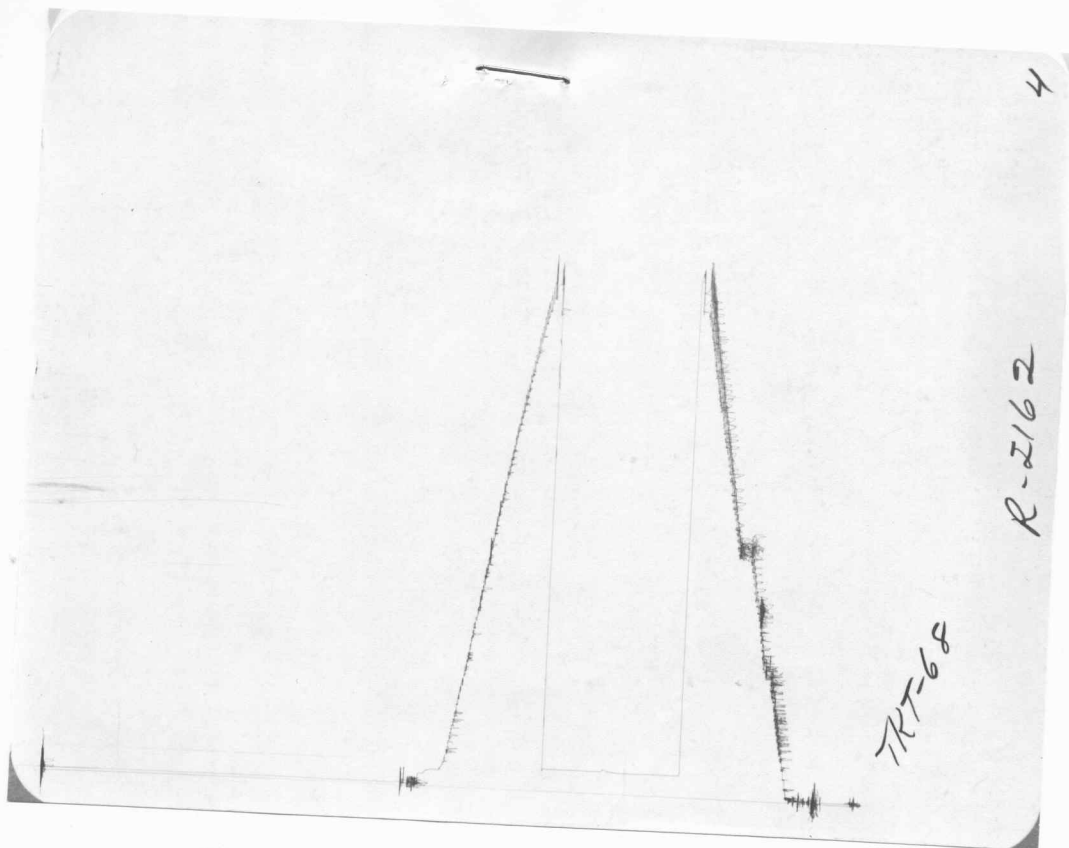
Formation Test No. 2 Total Depth 4425' Elev. _____
Interval Tested 4316' To 4425' Anchor Length 109'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.5 Viscosity 42 Water Loss 10.8 c.c. Bottom Hole Temp. 120 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 68

RECOVERY

Blow: Weak for 6 mins.

Recovery: 5' of mud

Lease and Well No. BUERKLE "I" Well #1 Sec 1 Twn 21-S Rg 34-W SE SW
Formation Test No. 2



Tool Open: 1st Flow 30 mins: Shut-in Initial 30 min: 2nd Flow 15 min: Shut-in Final 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2312</u>	<u>2320</u>
(B) Initial 1st Flow Pressure	<u>95</u>	<u>95</u>
(C) Final 1st Flow Pressure	<u>95</u>	<u>95</u>
(D) Initial Shut-in Pressure	<u>104</u>	<u>109</u>
(E) Initial 2nd Flow Pressure	<u>95</u>	<u>99</u>
(F) Final 2nd Flow Pressure	<u>95</u>	<u>99</u>
(G) Final Shut-in Pressure	<u>95</u>	<u>100</u>
(H) Final Hydrostatic Pressure	<u>2294</u>	<u>2294</u>

Ticket # 68

DATE 11-12-71

THUNDERBIRD DRLG., INC.

TESTING DIVISION

TICKET N^o

68

SEC. 1 TWN 21-S RG 34-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SE SW

WICHITA, KANSAS 67218

TEST NO. 2COMPANY Thunderbird Drlg. Inc.ADDRESS Box 18407; Wichita, Ks. 67218LEASE Buckle I WELL NO. 1 COUNTY Finney STATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>4 1/2" F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2312</u>	<u>2320</u>
ELEV. _____	TOTAL DEPTH <u>4425'</u>	INITIAL 1ST FLOW <u>95</u>	<u>95</u>
TESTED FROM <u>4316'</u>	TO <u>4425'</u>	FINAL 1ST FLOW <u>95</u>	<u>95</u>
ANCHOR LENGTH BELOW <u>109'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>104</u>	<u>109</u>
TOOL OPEN 1ST FLOW _____	A.M. <u>4:25</u> P.M. _____	INITIAL 2ND FLOW <u>95</u>	<u>99</u>
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>4:33</u> P.M. _____	FINAL 2ND FLOW <u>95</u>	<u>99</u>
TOOL OPEN 2ND FLOW _____	A.M. <u>5:25</u> P.M. _____	FINAL SHUT-IN <u>95</u>	<u>100</u>
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>5:40</u> P.M. _____	FINAL HYDROSTATIC <u>2294</u>	<u>2294</u>
MUD WT <u>9.5</u>	VISCOSITY <u>42</u> W.L. <u>10.8</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>30</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>120°</u>	INITIAL SHUT-IN _____	HR. <u>30</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>15</u> MIN.
LENGTH WEIGHT PIPE <u>1044'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>30</u> MIN.
SUCCESSFUL TEST NO. <u>2</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>3</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak for 6 mins.RECOVERY: 5' of mudEXTRA EQUIPMENT NoneAPPROVED BY: E. B. Dannelly THUNDERBIRD DRLG., INC.TESTER: Ed CookFORMATION TESTED Mudm.

OPERATOR TIME: _____

SHALL NOT BE LIABLE FOR ANY 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 FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>253.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>253.00</u>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drlg. Inc.

Lease and Well No. Buerkle "I" Well #1

County Finney State Kansas Date 11-13-71

Formation Test No. 3 Total Depth 4620' Elev. _____

Interval Tested 4535' To 4620' Anchor Length 85'

Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"

Mud Weight 9.6 Viscosity 50 Water Loss 5. c.c. Bottom Hole Temp. 122 ° F

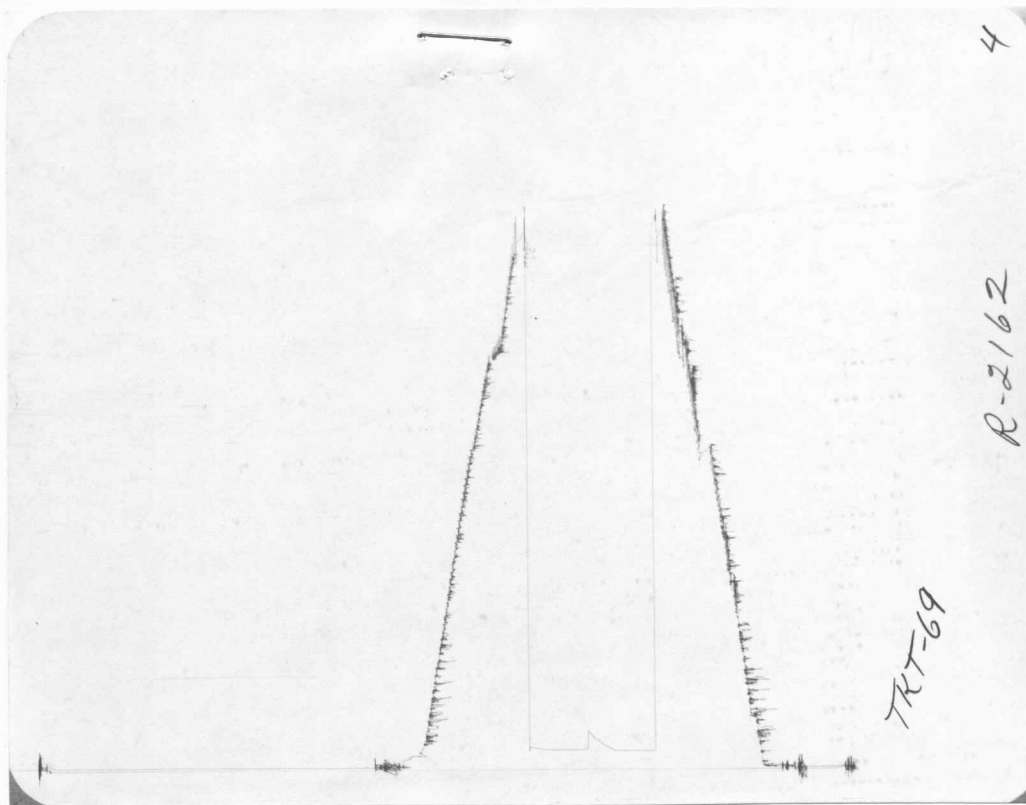
Chokes: Top 1/2" Bottom 1/2" Ticket No. 69

RECOVERY

Blow: Weak for 8 mins.

Recovery: 5' of mud

Lease and Well No. BUERKLE "I" Well #1 Sec 1 Twn 21-S Rg 34-W SE SW Formation Test No. 3



Tool Open: 1st Flow 20 mins: Shut-in Initial 30 min: 2nd Flow 15 min: Shut-in Final 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2444</u>	<u>2449</u>
(B) Initial 1st Flow Pressure	<u>78</u>	<u>83</u>
(C) Final 1st Flow Pressure	<u>78</u>	<u>83</u>
(D) Initial Shut-in Pressure	<u>173</u>	<u>173</u>
(E) Initial 2nd Flow Pressure	<u>87</u>	<u>88</u>
(F) Final 2nd Flow Pressure	<u>87</u>	<u>88</u>
(G) Final Shut-in Pressure	<u>95</u>	<u>102</u>
(H) Final Hydrostatic Pressure	<u>2435</u>	<u>2426</u>

Ticket # 69

DATE 11-13-71

THUNDERBIRD DRLG., INC.

TESTING DIVISION

TICKET N^o

69

SEC. 1 TWN 21-S RG 34-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SE SW

WICHITA, KANSAS 67218

TEST NO. 3COMPANY Thunderbird Drlg. Inc.ADDRESS Box 18407; Wichita, Ks. 67218LEASE Buerkle I WELL NO. 1 COUNTY Finn STATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>4 1/2" F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2444</u>	<u>2449</u>
ELEV. _____	TOTAL DEPTH <u>4620'</u>	INITIAL 1ST FLOW <u>78</u>	<u>83</u>
TESTED FROM <u>4535'</u>	TO <u>4620'</u>	FINAL 1ST FLOW <u>78</u>	<u>83</u>
ANCHOR LENGTH BELOW <u>85'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>173</u>	<u>173</u>
TOOL OPEN 1ST FLOW _____	A.M. <u>11:25</u> P.M. _____	INITIAL 2ND FLOW <u>87</u>	<u>88</u>
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>11:45</u> P.M. _____	FINAL 2ND FLOW <u>87</u>	<u>88</u>
TOOL OPEN 2ND FLOW _____	<u>12:15</u> A.M. _____ P.M. _____	FINAL SHUT-IN <u>95</u>	<u>102</u>
TOOL CLOSED FINAL SHUT-IN _____	<u>12:30</u> A.M. _____ P.M. _____	FINAL HYDROSTATIC <u>2435</u>	<u>2426</u>
MUD WT <u>96</u>	VISCOSITY <u>50</u> W.L. <u>5</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>20</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>122</u>	INITIAL SHUT-IN _____	HR. <u>30</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>15</u> MIN.
LENGTH WEIGHT PIPE <u>1044'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>30</u> MIN.
SUCCESSFUL TEST NO. <u>3</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>3</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak for 8 mins.RECOVERY: 5' of mudEXTRA EQUIPMENT None

APPROVED BY: _____ THUNDERBIRD DRLG., INC.

TESTER: Ed CookFORMATION TESTED Cherokee

OPERATOR TIME: _____

SHALL NOT BE LIABLE FOR ANY 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 FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>253.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>253.00</u>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drlg. Inc.

Lease and Well No. Buerkle "1" Well #1

County Finney

State Kansas

Date 11-14-71

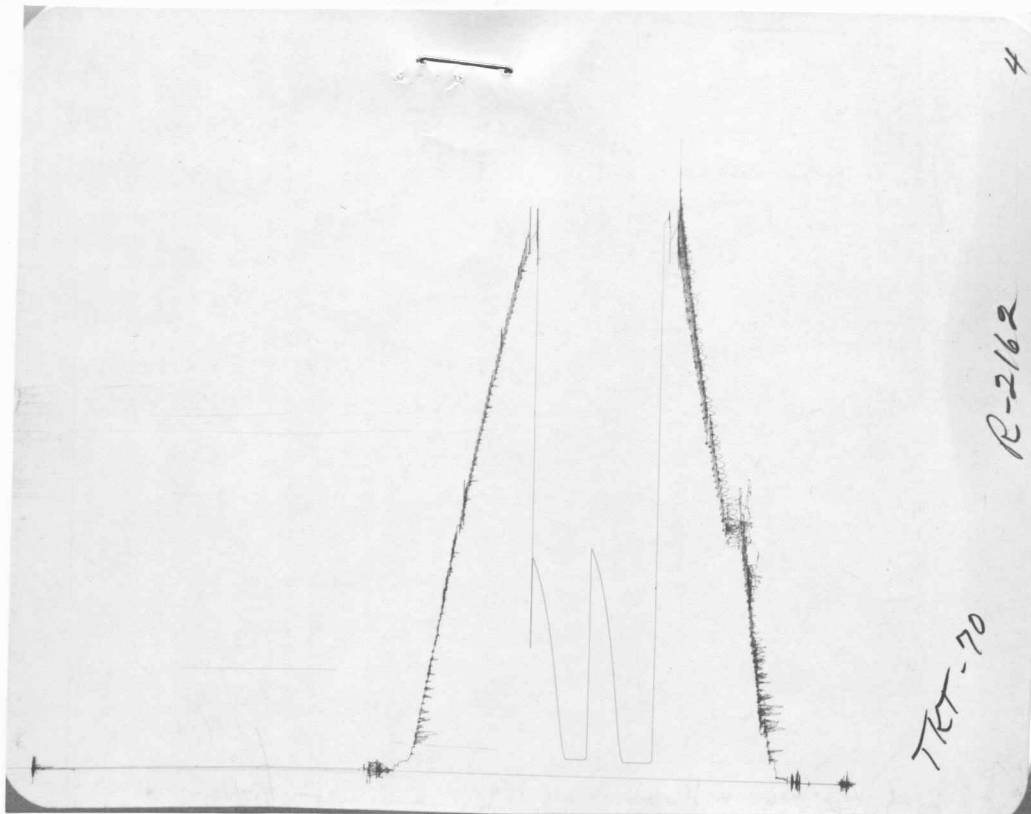
Formation Test No. 4 Total Depth 4690' Elev. _____
Interval Tested 4628' To 4690' Anchor Length 62'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.5 Viscosity 47 Water Loss 9.6 c.c. Bottom Hole Temp. 123 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 70

RECOVERY

Blow: Weak for 4 mins.

Recovery: 10' of mud

Lease and Well No. BUERKLE "1" Well #1 Sec 1 Twn 21-S Rg 34-W SE SW Formation Test No. 4



Tool Open: 1st Flow 20 mins: Shut-in Initial 30 min: 2nd Flow 15 min: Shut-in Final 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2505</u>	<u>2493</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>69</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>69</u>
(D) Initial Shut-in Pressure	<u>1021</u>	<u>1021</u>
(E) Initial 2nd Flow Pressure	<u>78</u>	<u>78</u>
(F) Final 2nd Flow Pressure	<u>78</u>	<u>78</u>
(G) Final Shut-in Pressure	<u>969</u>	<u>974</u>
(H) Final Hydrostatic Pressure	<u>2470</u>	<u>2461</u>

Ticket # 70

DATE 11-14-71

THUNDERBIRD DRLG., INC.

TESTING DIVISION

TICKET N°

70

SEC. 1 TWN 21-S RG 34-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SE SW

WICHITA, KANSAS 67218

TEST NO. 4

COMPANY

Thunderbird Drlg. Inc.

ADDRESS

Box 18407, Wichita, Ks. 67218

LEASE

BuckleyWELL NO. 1COUNTY FinneySTATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

GENERAL INFORMATION

4 1/2" F.H. TOOL JT. 7 7/8" HOLE SIZE 6 3/4" PACKER O.D.
ELEV. 4690' TOTAL DEPTH 4628' TO 4690'
ANCHOR LENGTH BELOW 62' BETWEEN ✓
TOOL OPEN 1ST FLOW 4:20 P.M. A.M. 4:30 P.M.
TOOL CLOSED INITIAL SHUT-IN 5:20 P.M. A.M. 5:35 P.M.
TOOL OPEN 2ND FLOW 9.5 MUD WT. 47 VISCOSITY 9.6 W.L. 123° C.C.
SP. GRAVITY OIL ✓ BOTTOM HOLE TEMPERATURE 1044' I.D. 2.76
LENGTH DRILL COLLAR 4 SUCCESSFUL TEST NO. ✓ MISRUN NO. ✓
CHOKES: TOP 1/2" BOTTOM 1/2"

PRESSURE DATA & TIME

	FIELD READINGS	CORRECTED READINGS
INITIAL HYDROSTATIC	<u>2505</u>	<u>2492</u>
INITIAL 1ST FLOW	<u>69</u>	<u>69</u>
FINAL 1ST FLOW	<u>69</u>	<u>69</u>
INITIAL SHUT-IN	<u>1021</u>	<u>1021</u>
INITIAL 2ND FLOW	<u>78</u>	<u>78</u>
FINAL 2ND FLOW	<u>78</u>	<u>78</u>
FINAL SHUT-IN	<u>969</u>	<u>974</u>
FINAL HYDROSTATIC	<u>2470</u>	<u>2461</u>
TOOL OPEN: 1ST FLOW		HR. <u>20</u> MIN.
INITIAL SHUT-IN		HR. <u>30</u> MIN.
2ND FLOW		HR. <u>15</u> MIN.
FINAL SHUT-IN		HR. <u>30</u> MIN.
TOP RECORDER NO. <u>2162</u>		BOTTOM RECORDER NO. <u>3</u>

TYPE BLOW

Weak for 4 mins.

RECOVERY:

10' of mud

EXTRA EQUIPMENT

None

APPROVED BY:

E. B. Donnelly

TESTER:

Ed Cook

FORMATION TESTED

Morrow

OPERATOR TIME:

THUNDERBIRD DRLG., INC.

SHALL NOT BE LIABLE FOR ANY 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 FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>255.00</u>
EXTRA PACKERS	\$
JARS	\$
SAFETY JOINT	\$
HOOK WALL	\$
MISRUN CHARGE	\$
STAND-BY CHARGE	\$
DST EVALUATION	\$
TOTAL	\$ <u>255.00</u>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drlg. Inc.

Lease and Well No. Buerkle "I" Well #1

County Finney

State Kansas

Date 11-15-71

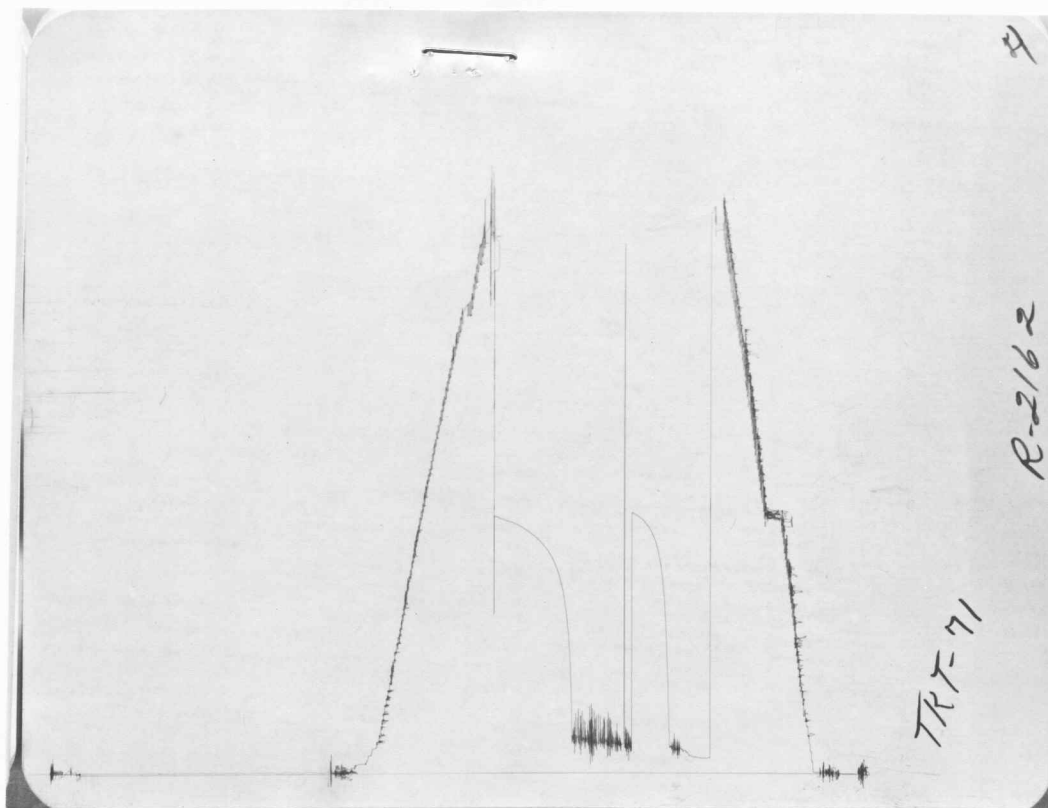
Formation Test No. 5 Total Depth 4740' Elev. _____
 Interval Tested 4682' To 4740' Anchor Length 58'
 Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
 Mud Weight 9.5 Viscosity 47 Water Loss 9.6 c.c. Bottom Hole Temp. 124 ° F
 Chokes: Top 1/2" Bottom 1/2" Ticket No. 71

RECOVERY

Blow: Fair blow thru-out test.
 Flushed tool 10 mins. after 2nd opening.

Recovery: 180' of mud (slight plugging)

Lease and Well No. BUERKLE "I" Well #1 Sec 1 Twn 21-S Rg 34-W SE SW
 Formation Test No. _____



Tool Open: 1st Flow 30 mins: Shut-in Initial 30 min: 2nd Flow 45 min: Shut-in Final 1 hr. min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2540</u>	<u>2546</u>
(B) Initial 1st Flow Pressure	<u>61</u>	<u>69</u>
(C) Final 1st Flow Pressure	<u>112</u>	<u>121</u>
(D) Initial Shut-in Pressure	<u>1176</u>	<u>1178</u>
(E) Initial 2nd Flow Pressure	<u>121</u>	<u>121</u>
(F) Final 2nd Flow Pressure	<u>156</u>	<u>156</u>
(G) Final Shut-in Pressure	<u>1159</u>	<u>1163</u>
(H) Final Hydrostatic Pressure	<u>2523</u>	<u>2523</u>

Ticket # 71

DATE 11-15-71

THUNDERBIRD DRLG., INC.

TESTING DIVISION

TICKET N^o 71SEC. 1 TWN 21-S RG 34-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SE SW

WICHITA, KANSAS 67218

TEST NO. 5

COMPANY Thunderbird Drlg. Inc.
ADDRESS Box 18407; Wichita, Ks. 67218
LEASE Buerkle I WELL NO. 1 COUNTY Finney STATE Ks.
INVOICES SENT TO: Same
DST COPIES SENT TO: "

GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>4 1/2" F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2540</u>	<u>2546</u>
ELEV. _____	TOTAL DEPTH <u>4740'</u>	INITIAL 1ST FLOW <u>61</u>	<u>69</u>
TESTED FROM <u>4682'</u>	TO <u>4740'</u>	FINAL 1ST FLOW <u>112</u>	<u>121</u>
ANCHOR LENGTH BELOW <u>58'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>1176</u>	<u>1178</u>
TOOL OPEN 1ST FLOW <u>11:45</u> A.M.	P.M. _____	INITIAL 2ND FLOW <u>121</u>	<u>121</u>
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>12:15</u> P.M. _____	FINAL 2ND FLOW <u>156</u>	<u>156</u>
TOOL OPEN 2ND FLOW _____	A.M. <u>12:45</u> P.M. _____	FINAL SHUT-IN <u>1159</u>	<u>1162</u>
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>1:30</u> P.M. _____	FINAL HYDROSTATIC <u>2523</u>	<u>2523</u>
MUD WT. <u>9.5</u>	VISCOSITY <u>47</u> W.L. <u>9.6</u> C.C.	TOOL OPEN: 1ST FLOW _____	HR. <u>30</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>124°</u>	INITIAL SHUT-IN _____	HR. <u>30</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>45</u> MIN.
LENGTH WEIGHT PIPE <u>1044'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN <u>1</u>	HR. _____ MIN.
SUCCESSFUL TEST NO. <u>5</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>3</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Fair blow thru-out test.
Flushed tool 10 mins. after 2nd opening
RECOVERY: 180' of mud (slight plugging)

EXTRA EQUIPMENT NoneAPPROVED BY: E B DannellyTESTER: Ed CookFORMATION TESTED Miss.

OPERATOR TIME: _____

THUNDERBIRD DRLG., INC.

SHALL NOT BE LIABLE FOR ANY 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 FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>255.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>255.00</u>