

THUNDERBIRD DRLG., INC.
TESTING DIVISION
Box 18407
WICHITA, KANSAS

Company Thunderbird Drilling Inc.

Lease and Well No. Kaler # 1

County Ness State Kansas Date 3-12-72

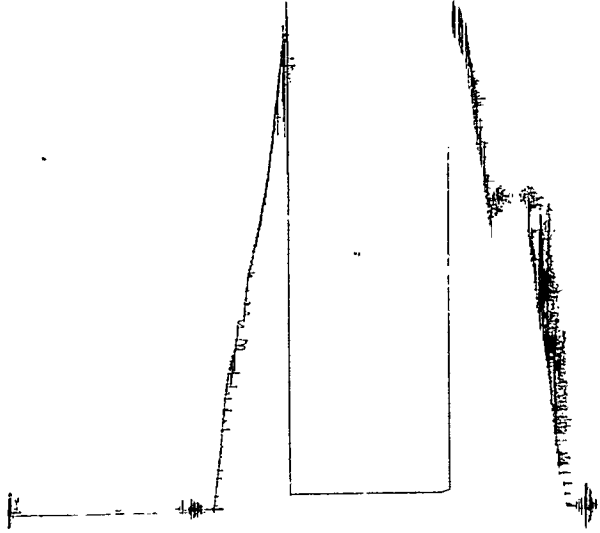
Formation Test No. 1 Total Depth 4230' Elev. _____
Interval Tested 4170' To 4230' Anchor Length 60'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.7 Viscosity 41 Water Loss 12.6 c.c. Bottom Hole Temp. 114 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 155

RECOVERY

Blow: Weak blow for 8 mins.

Recovery: 10' of mud

Lease and Well No. KALER # 1 Sec 6 T1m 16-S Rg 24-W NE NE NE
Formation Test No. 1



TRT 133-

R-2162

41

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2172</u>	<u>2170</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>70</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>70</u>
(D) Initial Shut-in Pressure	<u>69</u>	<u>70</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>70</u>
(F) Final 2nd Flow Pressure	<u>69</u>	<u>70</u>
(G) Final Shut-in Pressure	<u>69</u>	<u>70</u>
(H) Final Hydrostatic Pressure	<u>2154</u>	<u>2162</u>

Ticket # 155

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Company Thunderbird Drilling Inc.

Lease and Well No. Kaler # 1

County Ness State Kansas Date 3-13-72

Formation Test No. 2 Total Depth 4350' Elev. _____
Interval Tested 4331' To 4350' Anchor Length 19'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.8 Viscosity 45 Water Loss 14 c.c. Bottom Hole Temp. 116 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 156

RECOVERY

Blow: Weak 15 mins. Flushed tool on 2nd opening.

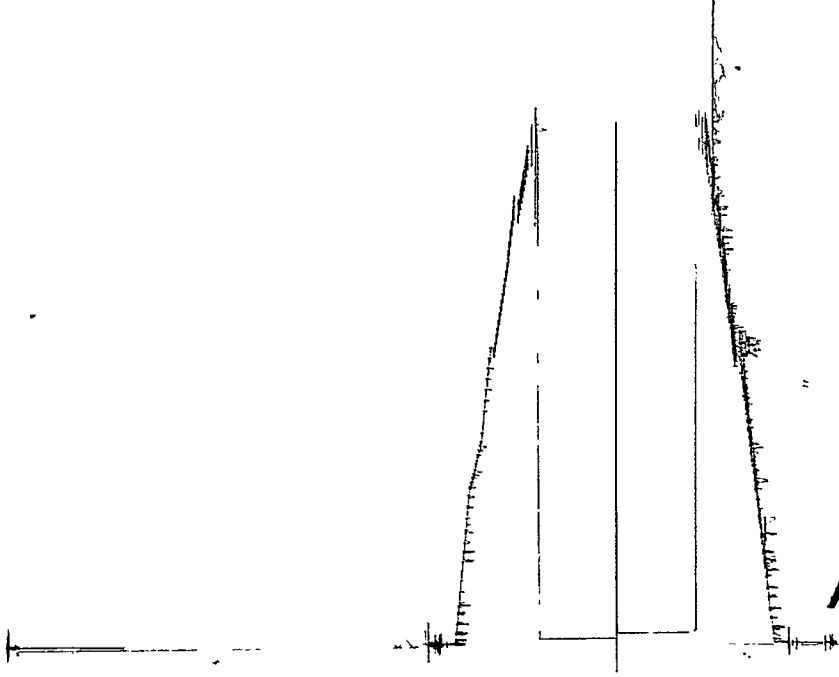
Recovery: 20' of mud

Lease and Well No. KALER # 1 Sec 6 Twn 16-S Rg 24-W NE NE NE
Formation Test No. 2

TKT-156

R-2162

5



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2347</u>	<u>2347</u>
(B) Initial 1st Flow Pressure	<u>35</u>	<u>35</u>
(C) Final 1st Flow Pressure	<u>35</u>	<u>35</u>
(D) Initial Shut-in Pressure	<u>35</u>	<u>35</u>
(E) Initial 2nd Flow Pressure	<u>35</u>	<u>35</u>
(F) Final 2nd Flow Pressure	<u>35</u>	<u>35</u>
(G) Final Shut-in Pressure	<u>35</u>	<u>35</u>
(H) Final Hydrostatic Pressure	<u>2329</u>	<u>2330</u>

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Company Thunderbird Drilling Inc.
Lease and Well No. Kaler # 1
County Ness State Kansas Date 3-14-72

Formation Test No. 3 Total Depth 4420' Elev. _____
Interval Tested 4402' To 4420' Anchor Length 18'
Size Hole 7 7/8" Size Drill Pipe 4 1/2" FH Size Packer 6 3/4"
Mud Weight 9.8 Viscosity 45 Water Loss 14 c.c. Bottom Hole Temp. 117 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 157

RECOVERY

Blow: Weak blow 17 mins.

Recovery: 15' of mud

Lease and Well No. KALER # 1 Sec 6 Twn 16-S Rg 24-W NE NE NE

Formation Test No. 3



TKT-137

E-2162

41

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2347</u>	<u>2350</u>
(B) Initial 1st Flow Pressure	<u>51</u>	<u>53</u>
(C) Final 1st Flow Pressure	<u>51</u>	<u>53</u>
(D) Initial Shut-in Pressure	<u>51</u>	<u>53</u>
(E) Initial 2nd Flow Pressure	<u>51</u>	<u>53</u>
(F) Final 2nd Flow Pressure	<u>51</u>	<u>53</u>
(G) Final Shut-in Pressure	<u>51</u>	<u>53</u>
(H) Final Hydrostatic Pressure	<u>2329</u>	<u>2330</u>

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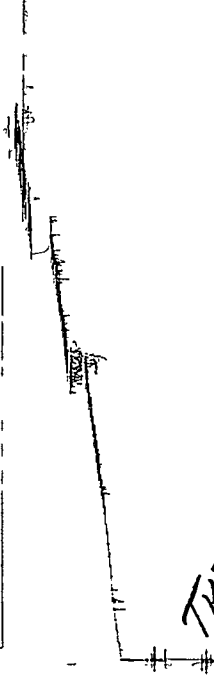
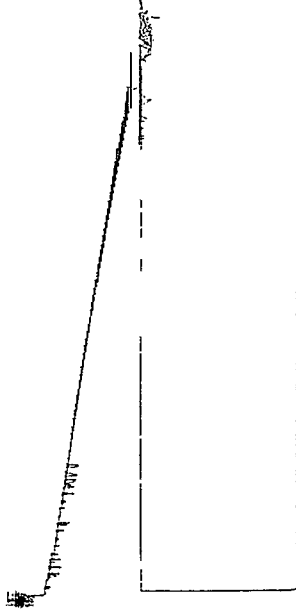
Company Thunderbird Drilling Inc.
Lease and Well No. Kaler # 1
County Ness State Kansas Date 3-15-72

Formation Test No. 4 Total Depth 4464' Elev. _____
Interval Tested 4427' To 4464' Anchor Length 37'
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 10.2 c.c. Bottom Hole Temp. 117 ° F
Chokes: Top 1/2" Bottom 1/2" Ticket No. 158

RECOVERY

Blow: Weak blow for 10 mins.
Recovery: 10' of mud.

Lease and Well No. KALER # 1 Sec 6 Twn 16-S Rg 24-W NE NE NE
Formation Test No. 4



TKT-158

R-2162

4

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2364</u>	<u>2360</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>69</u>	<u>69</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>69</u>
(F) Final 2nd Flow Pressure	<u>69</u>	<u>69</u>
(G) Final Shut-in Pressure	<u>69</u>	<u>69</u>
(H) Final Hydrostatic Pressure	<u>2347</u>	<u>2347</u>