

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

Company Thunderbird Drilling Inc.

Lease and Well No. Ehmke E - 1

County Labé State Kansas Date 8-26-75

Formation Test No. 1 Total Depth 4310' Elev. \_\_\_\_\_

Interval Tested 4256' To 4310' Anchor Length 54'

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

Mud Weight 9.9 Viscosity 48 Water Loss 9.6 c.c. Bottom Hole Temp. 114 ° F

Chokes: Top 1/2" Bottom 1/2" Ticket No. 592

RECOVERY

Blow: Weak for 20 mins.

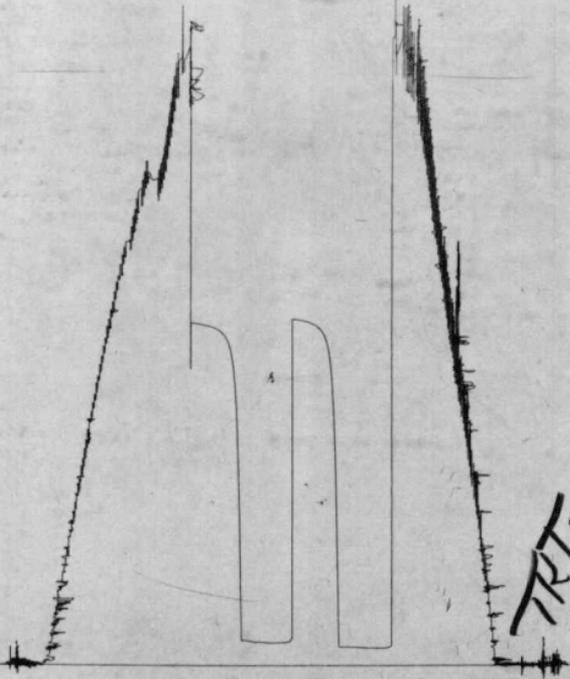
Recovery: 60° of thin mud

Lease and Well No. EHMKE # E-1 Sec 19 Twn 18-S Rg 29-W NW SW  
Formation Test No. 1

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>69</u>	<u>67</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>67</u>
(D) Initial Shut-in Pressure	<u>1263</u>	<u>1260</u>
(E) Initial 2nd Flow Pressure	<u>87</u>	<u>87</u>
(F) Final 2nd Flow Pressure	<u>87</u>	<u>87</u>
(G) Final Shut-in Pressure	<u>1246</u>	<u>1246</u>
(H) Final Hydrostatic Pressure	<u>2329</u>	<u>2330</u>

Ticket # 592



TRT-572

R-2162

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Lease and Well No. Ehmke E - 1

County Lane State Kansas Date 8-27-75

Formation Test No. 2 Total Depth 4395' Elev. \_\_\_\_\_

Interval Tested 4366' To 4395' Anchor Length 29'

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

Mud Weight 9.7 Viscosity 46 Water Loss 10.4 c.c. Bottom Hole Temp. 116 ° F

Chokes: Top 1/2" Bottom 1/2" Ticket No. 593

RECOVERY

Blow: Weak blow for 5 mins.

Recovery: 5' of mud

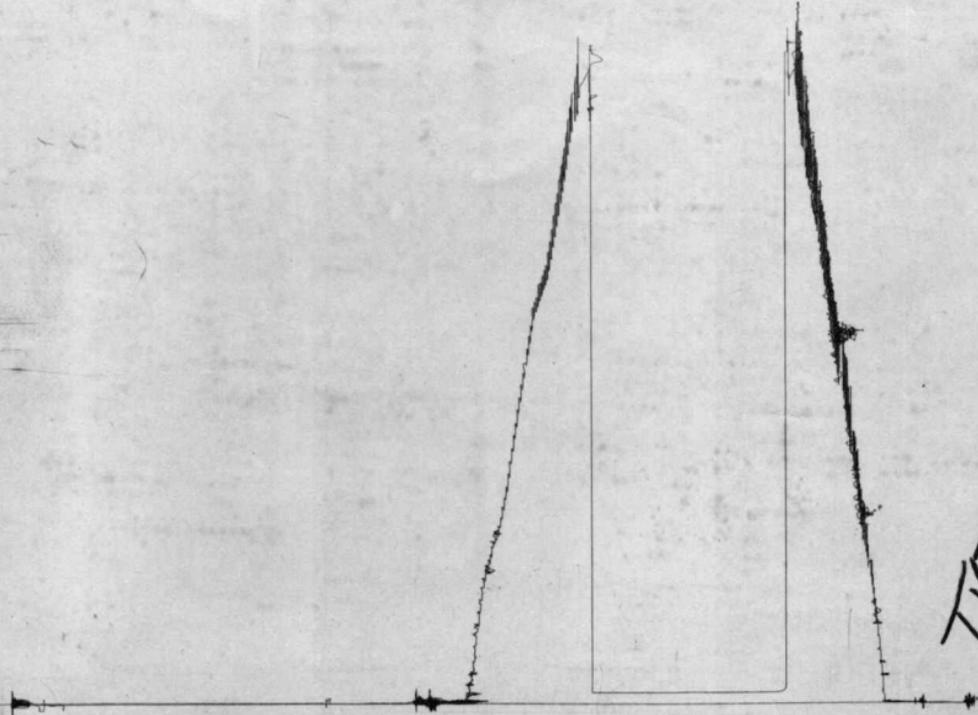
Lease and Well No. EHMKE # E - 1 Sec 19 Twn 18-S Rg 29-W NW SW

Formation Test No. 2

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>2400</u>	<u>2400</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>45</u>
(C) Final 1st Flow Pressure	<u>43</u>	<u>45</u>
(D) Initial Shut-in Pressure	<u>43</u>	<u>45</u>
(E) Initial 2nd Flow Pressure	<u>43</u>	<u>45</u>
(F) Final 2nd Flow Pressure	<u>43</u>	<u>45</u>
(G) Final Shut-in Pressure	<u>43</u>	<u>45</u>
(H) Final Hydrostatic Pressure	<u>2400</u>	<u>2390</u>

Ticket # 593



TNT-593

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Company Thunderbird Drilling Inc.  
Lease and Well No. Ehmke E - 1  
County Lane State Kansas Date 8-27-75

Formation Test No. 3 Total Depth 4440' Elev. \_\_\_\_\_  
Interval Tested 4400' To 4440' Anchor Length 40'  
Size Hole 7 7/8" Size Drill Pipe 4 1/2" XH FH Size Packer 6 3/4"  
Mud Weight 9.8 Viscosity 49 Water Loss 11.2 c.c. Bottom Hole Temp. 118 ° F  
Chokes: Top 1/2" Bottom 1/2" Ticket No. 594

RECOVERY

Blow: Weak blow for 5 mins.  
Recovery: 5' of mud

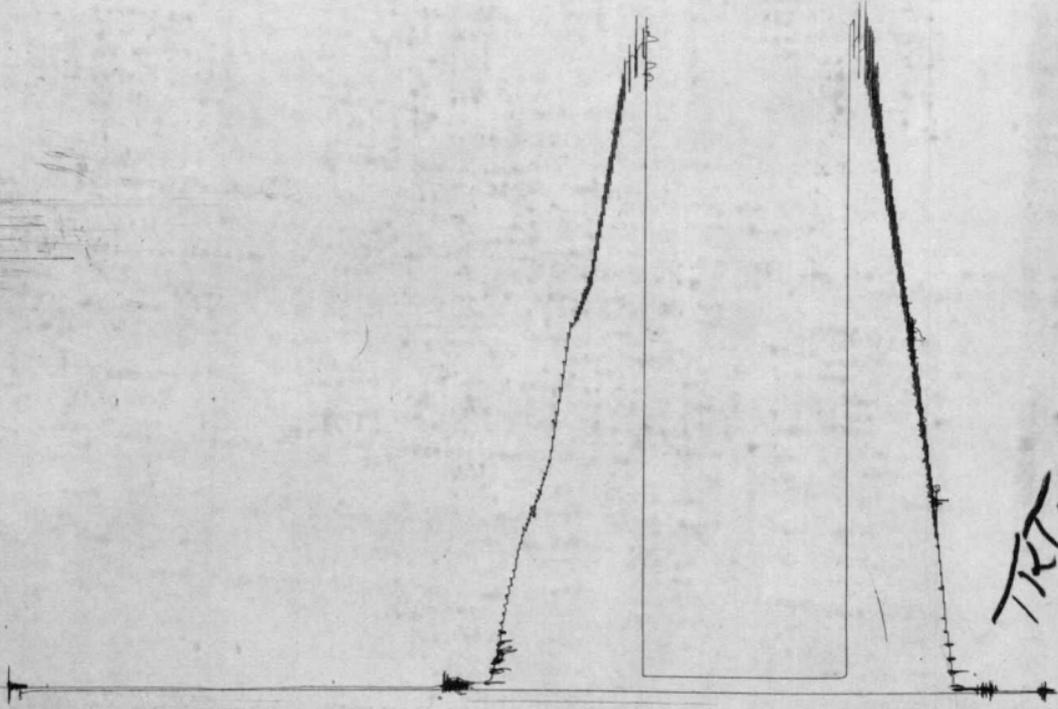
Lease and Well No. EHMKE # E - 1 Sec 19 Twn 18-S Rg 29-W NW SW

Formation Test No. 3

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>2435</u>	<u>2430</u>
(B) Initial 1st Flow Pressure	<u>52</u>	<u>52</u>
(C) Final 1st Flow Pressure	<u>52</u>	<u>52</u>
(D) Initial Shut-in Pressure	<u>52</u>	<u>52</u>
(E) Initial 2nd Flow Pressure	<u>52</u>	<u>52</u>
(F) Final 2nd Flow Pressure	<u>52</u>	<u>52</u>
(G) Final Shut-in Pressure	<u>52</u>	<u>52</u>
(H) Final Hydrostatic Pressure	<u>2417</u>	<u>2420</u>

Ticket # 594



TRT-584

R-2162

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Company Thunderbird Drilling Inc.

Lease and Well No. Ehnke E - 1

County Lane State Kansas Date 8-29-75

Formation Test No. 4 Total Depth 4575' Elev. \_\_\_\_\_

Interval Tested 4555' To 4575' Anchor Length 20'

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

Mud Weight 9.7 Viscosity 59 Water Loss 10. c.c. Bottom Hole Temp. 118 ° F

Chokes: Top 1/2" Bottom 1/2" Ticket No. 595

## RECOVERY

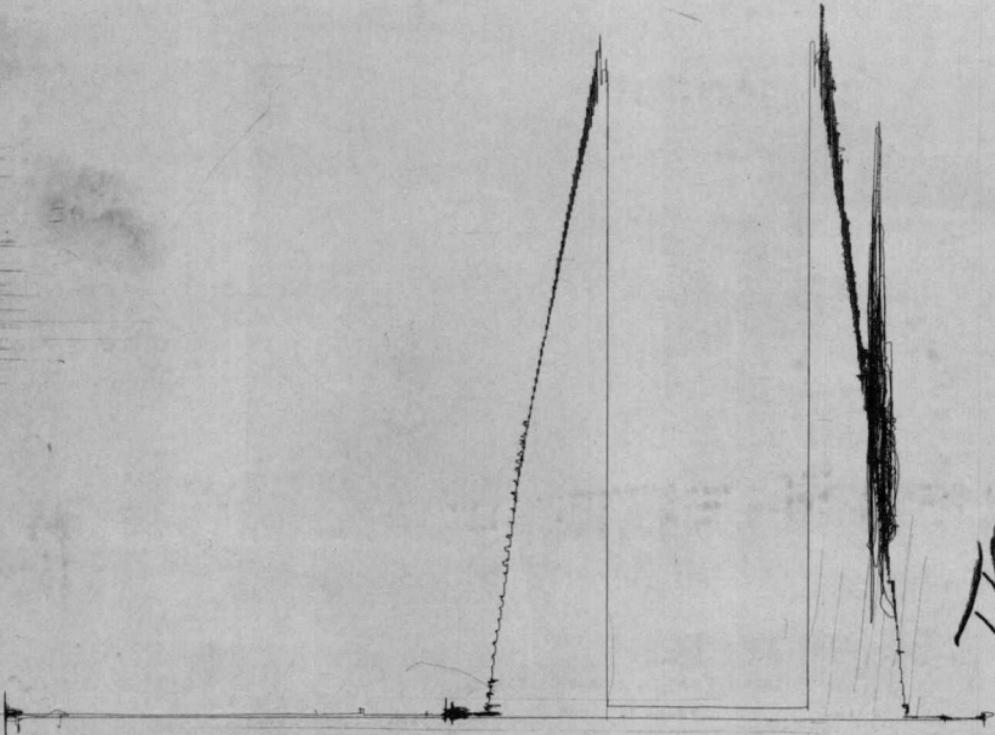
**Blow:** Weak blow for 5 mins.

**Recovery:** 4' of mud

Lease and Well No. EHNKE # E - 1 Sec 19 Twn 18-S Rg 29-W NW SW  
Formation Test No. 4

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2505</u>	<u>2500</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>45</u>
(C) Final 1st Flow Pressure	<u>43</u>	<u>45</u>
(D) Initial Shut-in Pressure	<u>43</u>	<u>45</u>
(E) Initial 2nd Flow Pressure	<u>43</u>	<u>45</u>
(F) Final 2nd Flow Pressure	<u>43</u>	<u>45</u>
(G) Final Shut-in Pressure	<u>43</u>	<u>45</u>
(H) Final Hydrostatic Pressure	<u>2452</u>	<u>2470</u>



TKT-585-

R-2162

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Lease and Well No. Ehnke E - 1

County Lane State Kansas Date 8-30-75

Formation Test No. 5 Total Depth 4670' Elev. \_\_\_\_\_

Interval Tested 4625' To 4670' Anchor Length 45'

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

Mud Weight 9.5 Viscosity 50 Water Loss 10 c.c. Bottom Hole Temp. 123 ° F

Chokes: Top 1/2" Bottom 1/2" Ticket No. 596

RECOVERY

Blow: Good blow

Recovery: 850' of muddy water

Lease and Well No. EHNKE # E - 1 Sec 19 Twn 18-S Rg 29-W NW SW  
Formation Test No. 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>2523</u>	<u>2520</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>70</u>
(C) Final 1st Flow Pressure	<u>277</u>	<u>278</u>
(D) Initial Shut-in Pressure	<u>1125</u>	<u>1125</u>
(E) Initial 2nd Flow Pressure	<u>329</u>	<u>330</u>
(F) Final 2nd Flow Pressure	<u>398</u>	<u>400</u>
(G) Final Shut-in Pressure	<u>1090</u>	<u>1092</u>
(H) Final Hydrostatic Pressure	<u>2523</u>	<u>2515</u>

Ticket # 596

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R-2162

TKT-396

