

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING INC.

Lease and Well No. STOECKER #1

County HODGEMAN State KANSAS

Date AUGUST 1, 1970

Formation Test No. <u>1</u>	Total Depth <u>4497</u>	Elev. <u>2281 K.B.</u>
Interval Tested <u>4457</u>	To <u>4497</u>	Anchor Length <u>40'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2 F.H.</u>	Size Packer <u>6 3/4</u>
Mud Weight <u>9.8</u>	Viscosity <u>39</u>	Water Loss <u>9.2</u> c.c.
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Bottom Hole Temp. <u>116</u> °F
Length of Drill Collar <u>750</u>	I. D. <u>2.76</u>	Ticket No. <u>10707</u>
	Length Flexweight <u>750</u>	I. D. <u>2.76</u>

RECOVERY

WEAK BLOW THROUGHOUT TEST.

55 FEET OF SLIGHTLY OIL & GAS CUT MUD.
500 FEET OF GAS IN PIPE.

Lease and Well No.

STOECKER #1

4 24S 22W

NE NE

Formation Test No. 1

Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 55 min: Shut-in Final hr. 30 min

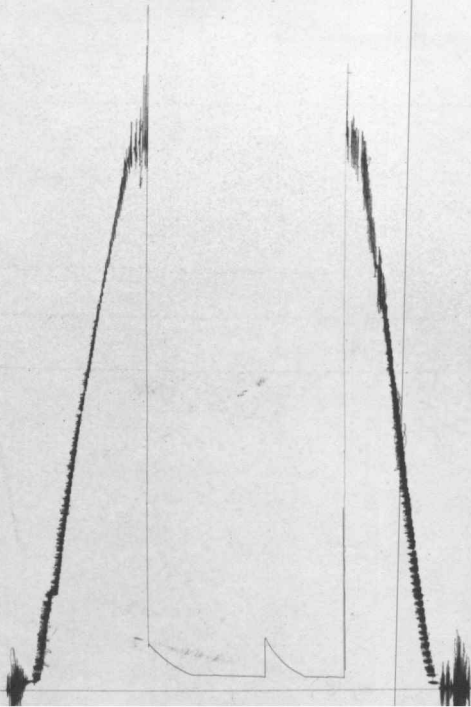
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2439	2448
(B) Initial 1st Flow Pressure	51	56
(C) Final 1st Flow Pressure	55	60
(D) Initial Shut-in Pressure	229	233
(E) Initial 2nd Flow Pressure	59	60
(F) Final 2nd Flow Pressure	68	72
(G) Final Shut-in Pressure	207	209
(H) Final Hydrostatic Pressure	2422	2423

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Lease and Well No. STOECKER #1

County HODGEMAN State KANSAS

Date AUGUST 1, 1970

Formation Test No. <u>2</u>	Total Depth <u>4555</u>	Elev. <u>2281 K.B.</u>
Interval Tested <u>4500</u>	To <u>4555</u>	Anchor Length <u>55'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2 F.H.</u>	Size Packer <u>6 3/4</u>
Mud Weight <u>9.8</u>	Viscosity <u>38</u>	Water Loss <u>10.2</u> c.c.
		Bottom Hole Temp. <u>118</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>10708</u>
Length of Drill Collar _____	I. D. _____	Length Flexweight <u>750</u>
		I. D. <u>2.76</u>

RECOVERY

WEAK BLOW FOR 4 MINUTES. FLUSHED TOOL FOR 15 MINUTES AFTER FIRST OPENING AND 20 MINUTES AFTER SECOND OPENING.

10 FEET OF MUD.

Lease and Well No.

STOECKER #1

4 24S 22W

NE NE

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>2423</u>	<u>2431</u>
(B) Initial 1st Flow Pressure	<u>62</u>	<u>65</u>
(C) Final 1st Flow Pressure	<u>62</u>	<u>65</u>
(D) Initial Shut-in Pressure	<u>187</u>	<u>194</u>
(E) Initial 2nd Flow Pressure	<u>68</u>	<u>65</u>
(F) Final 2nd Flow Pressure	<u>68</u>	<u>71</u>
(G) Final Shut-in Pressure	<u>114</u>	<u>116</u>
(H) Final Hydrostatic Pressure	<u>2414</u>	<u>2431</u>

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GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. STOECKER #1

County HODGEMAN State KANSAS

Date AUGUST 2, 1970

Formation Test No. <u>3</u>	Total Depth <u>4567</u>	Elev. <u>2281 K.B.</u>
Interval Tested <u>4500</u>	To <u>4567</u>	Anchor Length <u>67'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2 F.H.</u>	Size Packer <u>6 3/4</u>
Mud Weight <u>9.8</u>	Viscosity <u>35</u>	Water Loss <u>11.4</u> c.c.
		Bottom Hole Temp. <u>118</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>10709</u>
Length of Drill Collar	I. D.	Length Flexweight <u>750</u> I. D. <u>2.76</u>

RECOVERY

WEAK BLOW FOR 7 MINUTES. FLUSHED TOOL AFTER 7 MINUTES. NO BLOW.
20 FEET OF MUD.

Lease and Well No. STOECKER #1 4 24S 22W NE NE

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

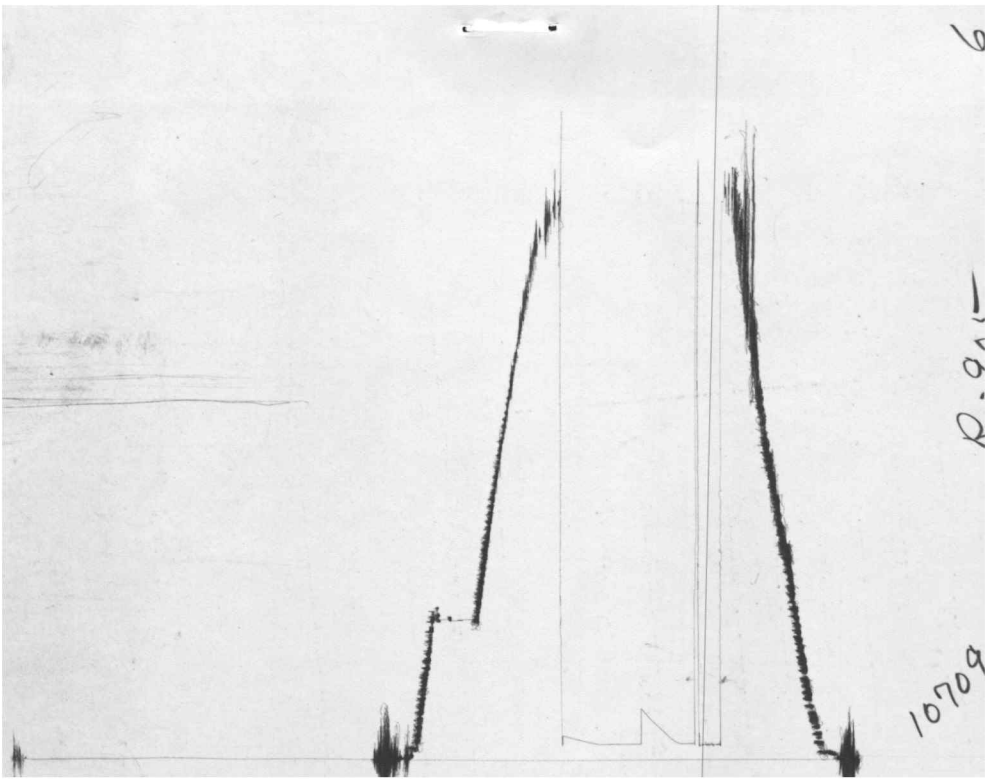
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2443</u>	<u>2457</u>
(B) Initial 1st Flow Pressure	<u>63</u>	<u>65</u>
(C) Final 1st Flow Pressure	<u>68</u>	<u>70</u>
(D) Initial Shut-in Pressure	<u>221</u>	<u>226</u>
(E) Initial 2nd Flow Pressure	<u>72</u>	<u>70</u>
(F) Final 2nd Flow Pressure	<u>72</u>	<u>71</u>
(G) Final Shut-in Pressure	<u>111</u>	<u>111</u>
(H) Final Hydrostatic Pressure	<u>2431</u>	<u>2448</u>

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MILLER TESTING COMPANY

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Lease and Well No. STOECKER #1

County HODGEMAN State KANSAS

Date AUGUST 3, 1970

Formation Test No. <u>4</u>	Total Depth <u>4579</u>	Elev. <u>2281 K.B.</u>
Interval Tested <u>4500</u>	To <u>4579</u>	Anchor Length <u>79'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2 F.H.</u>	Size Packer <u>6 3/4</u>
Mud Weight <u>9.8</u>	Viscosity <u>38</u>	Water Loss <u>29</u>
		c.c. Bottom Hole Temp. <u>118</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>10710</u>
Length of Drill Collar <u>I. D.</u>	Length Flexweight <u>750</u>	I. D. <u>2.76</u>

RECOVERY

WEAK BLOW FOR 9 MINUTES. FLUSHED TOOL FOR 7 MINUTES AFTER SECOND OPENING.

25 FEET OF MUD WITH VERY FEW OIL SPECKS IN TOOL.

Lease and Well No.

STOECKER #1

4 24S 22W

NE NE

Formation Test No. 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

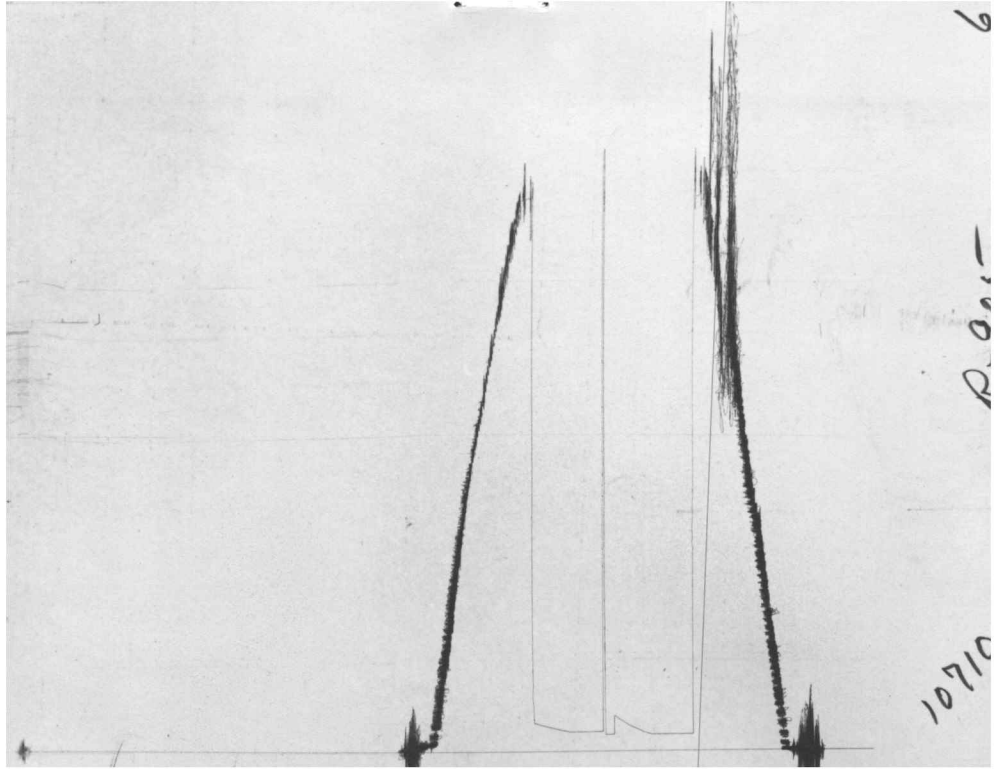
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2448	2457
(B) Initial 1st Flow Pressure	71	73
(C) Final 1st Flow Pressure	71	73
(D) Initial Shut-in Pressure	153	158
(E) Initial 2nd Flow Pressure	71	73
(F) Final 2nd Flow Pressure	85	85
(G) Final Shut-in Pressure	119	124
(H) Final Hydrostatic Pressure	2431	2431

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Lease and Well No. STOECKER #1

County HODGEMAN State KANSAS

Date AUGUST 4, 1970

Formation Test No. <u>5</u>	Total Depth <u>4608</u>	Elev. <u>2281 K.B.</u>
Interval Tested <u>4590</u>	To <u>4608</u>	Anchor Length <u>18'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2 F.H.</u>	Size Packer <u>6 3/4</u>
Mud Weight <u>9.8</u>	Viscosity <u>37</u>	Water Loss <u>19.8</u> c.c.
		Bottom Hole Temp. <u>120</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>10711</u>
Length of Drill Collar <u> </u>	I. D. <u> </u>	Length Flexweight <u>750</u>
		I. D. <u>2.76</u>

RECOVERY

WEAK SURGING BLOW DECREASED TO SURGING INTERMITTENT BLOW FOR 30 MINUTES. FLUSHED TOOL FOR 8 MINUTES. FLUSHED TOOL FOR 20 MINUTES AFTER FIRST OPENING AND 5 MINUTES AFTER SECOND OPENING.

SLIGHT PLUGGING DURING FLOW PERIODS.

60 FEET OF MUD WITH VERY FEW OIL SPECKS.

Lease and Well No. STOECKER #1 4 24S 22W NE NE

Formation Test No. 5

DATE AUGUST 4, 1970

LEASE STOECKER

WELL
NO.

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TEST
NO.

5

TICKET NO. 10711

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2499
INITIAL CLOSED IN PRESSURE	30 MINS.	1258
INITIAL FLOW	30 MINS.	34 to 51
FINAL FLOW	30 MINS.	56 to 60
FINAL CLOSED IN PRESSURE	30 MINS.	1097
FINAL HYDRO MUD PRESSURE		2448

TOTAL DEPTH 4608

PACKER DEPTH 4590

BT. NO. 905 DEPTH 4603

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	34		51		56		60
	*		553		*		510
	*		867		*		740
	*		1029		*		893
	*		1139		*		978
	*		1224		*		1046
	51		1258		60		1097
5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS * UNABLE TO BREAK DOWN FLOW PERIODS DUE TO SLIGHT PLUGGING.

SPECIAL PRESSURE DATA

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>2499</u>	<u>2499</u>
(B) Initial 1st Flow Pressure	<u>42</u>	<u>34</u>
(C) Final 1st Flow Pressure	<u>51</u>	<u>51</u>
(D) Initial Shut-in Pressure	<u>1249</u>	<u>1258</u>
(E) Initial 2nd Flow Pressure	<u>54</u>	<u>56</u>
(F) Final 2nd Flow Pressure	<u>59</u>	<u>60</u>
(G) Final Shut-in Pressure	<u>1088</u>	<u>1097</u>
(H) Final Hydrostatic Pressure	<u>2482</u>	<u>2448</u>

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