

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGGANS H #1

County LANE

State KANSAS

Date JULY 2, 1971

Formation Test No. <u>1</u>	Total Depth <u>4106</u>	Elev. _____
Interval Tested <u>4096</u>	To <u>4106</u>	Anchor Length <u>10'</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>9.6</u>	Viscosity <u>42</u>	Water Loss <u>8</u> c.c. Bottom Hole Temp. <u>115</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>11503</u>
Length of Drill Collar _____	I. D. _____	Length Flexweight <u>592</u> I. D. <u>2.76</u>

RECOVERY

WEAK BLOW FOR 4 MINUTES. FLUSHED TOOL IN 9 MINUTES AFTER FIRST
OPENING AND 4 MINUTES AFTER SECOND OPENING.

3 FEET OF MUD.

Lease and Well No. HAGGANS H #1 2 17S 27W NW NE NE

Formation Test No. 1

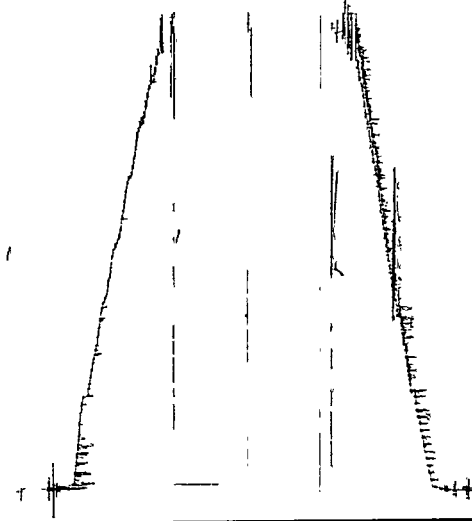
Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2137.</u>	<u>2093</u>
(B) Initial 1st Flow Pressure	<u>26</u>	<u>31</u>
(C) Final 1st Flow Pressure	<u>26</u>	<u>31</u>
(D) Initial Shut-in Pressure	<u>26</u>	<u>31</u>
(E) Initial 2nd Flow Pressure	<u>26</u>	<u>31</u>
(F) Final 2nd Flow Pressure	<u>26</u>	<u>31</u>
(G) Final Shut-in Pressure	<u>26</u>	<u>31</u>
(H) Final Hydrostatic Pressure	<u>2102</u>	<u>2084</u>

11503

100

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R-2162

11503

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGGANS H #1

County LANE

State KANSAS

Date JULY 3, 1971

Formation Test No.	<u>2</u>	Total Depth	<u>4162</u>	Elev.	
Interval Tested	<u>4128</u>	To	<u>4162</u>	Anchor Length	<u>34'</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>9.6</u>	Viscosity	<u>42</u>	Water Loss	<u>8 c.c.</u>
				Bottom Hole Temp.	<u>115 °F</u>
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>11504</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>592</u>
				I. D.	<u>2.76</u>

RECOVERY

WEAK BLOW FOR 5 MINUTES. FLUSHED TOOL IN 4 MINUTES AFTER SECOND OPENING.

5 FEET OF MUD.

Lease and Well No. HAGGANS H #1

2 17S 27W

NW NE NE

Formation Test No. 2

Tool Open: 1st Flow____hr. 30mins: Shut-in Initial____hr. 30min: 2nd Flow ____hr. 30min: Shut-in Final____hr. 30min.

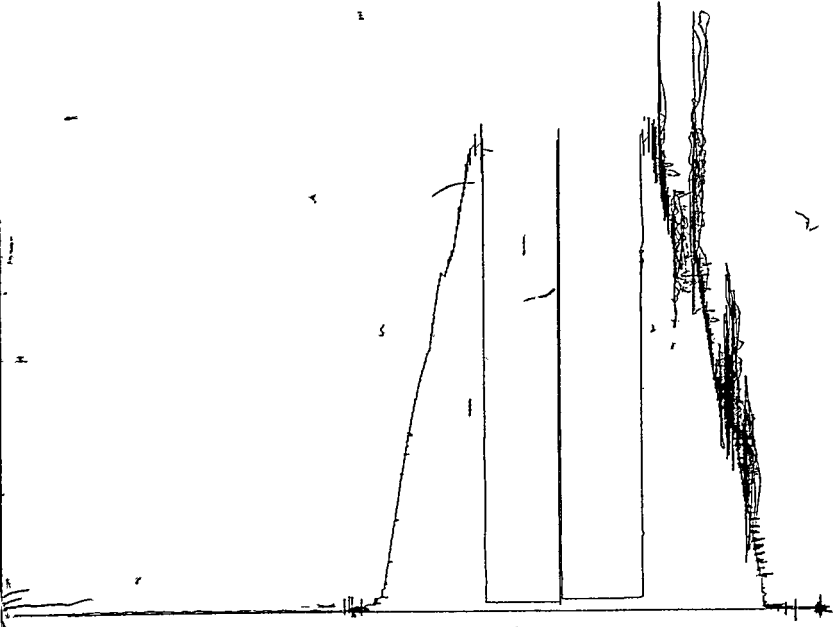
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2154</u>	<u>2145</u>
(B) Initial 1st Flow Pressure	<u>52</u>	<u>54</u>
(C) Final 1st Flow Pressure	<u>52</u>	<u>54</u>
(D) Initial Shut-in Pressure	<u>52</u>	<u>54</u>
(E) Initial 2nd Flow Pressure	<u>52</u>	<u>54</u>
(F) Final 2nd Flow Pressure	<u>43</u>	<u>40</u>
(G) Final Shut-in Pressure	<u>43</u>	<u>40</u>
(H) Final Hydrostatic Pressure	<u>2137</u>	<u>2119</u>

11504

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11524



MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGGANS H #1

County LANE State KANSAS

Date JULY 3, 1971

Formation Test No. 3 Total Depth 4180 Elev. _____
Interval Tested 4162 To 4180 Anchor Length 18'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 9.5 Viscosity 40 Water Loss 8 c.c. Bottom Hole Temp. 116 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11505
Length of Drill Collar _____ I. D. _____ Length Flexweight 592 I. D. 2.76

RECOVERY

WEAK BLOW FOR 3 MINUTES. FLUSHED TOOL IN 10 MINUTES AFTER FIRST OPENING.

3 FEET OF MUD.

Lease and Well No. HAGGANS H #1 2 17S 27W NW 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.

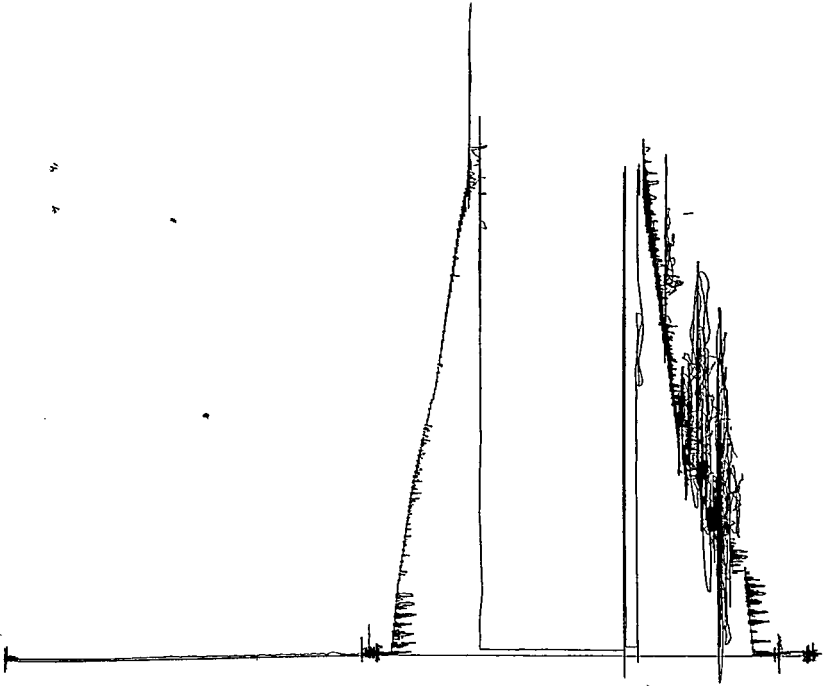
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2172</u>	<u>2163</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>40</u>
(C) Final 1st Flow Pressure	<u>26</u>	<u>26</u>
(D) Initial Shut-in Pressure	<u>26</u>	<u>26</u>
(E) Initial 2nd Flow Pressure	<u>26</u>	<u>26</u>
(F) Final 2nd Flow Pressure	<u>26</u>	<u>26</u>
(G) Final Shut-in Pressure	<u>26</u>	<u>26</u>
(H) Final Hydrostatic Pressure	<u>2172</u>	<u>2154</u>

11505

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GREAT BEND, KANSAS

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Lease and Well No. HAGGANS H #1

County LANE State KANSAS

Date JULY 4, 1971

Formation Test No.	<u>4</u>	Total Depth	<u>4245</u>	Elev.	
Interval Tested	<u>4216</u>	To	<u>4245</u>	Anchor Length	<u>29'</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>9.5</u>	Viscosity	<u>40</u>	Water Loss	<u>8</u> c.c.
				Bottom Hole Temp.	<u>116</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>11506</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>592</u>
				I. D.	<u>2.76</u>

RECOVERY

WEAK BLOW FOR 4 MINUTES.

5 FEET OF MUD.

Lease and Well No. HAGGANS H #1 2 17S 27W NW 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	<u>2145</u>	<u>2233</u>
(B) Initial 1st Flow Pressure	<u>26</u>	<u>29</u>
(C) Final 1st Flow Pressure	<u>26</u>	<u>29</u>
(D) Initial Shut-in Pressure	<u>43</u>	<u>36</u>
(E) Initial 2nd Flow Pressure	<u>35</u>	<u>34</u>
(F) Final 2nd Flow Pressure	<u>35</u>	<u>34</u>
(G) Final Shut-in Pressure	<u>35</u>	<u>34</u>
(H) Final Hydrostatic Pressure	<u>2137</u>	<u>2215</u>

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11506

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MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGGANS H #1

County LANE State KANSAS Date JULY 6, 1971

Formation Test No. 5 Total Depth 4460 Elev. _____
 Interval Tested 4434 To 4460 Anchor Length 26'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
 Mud Weight 9.6 Viscosity 41 Water Loss 8 c.c. Bottom Hole Temp. 118 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 11507
 Length of Drill Collar _____ I. D. _____ Length Flexweight 562 I. D. 2.76

RECOVERY

WEAK BLOW FOR 3 MINUTES. FLUSHED TOOL IN 5 MINUTES AFTER FIRST OPENING.

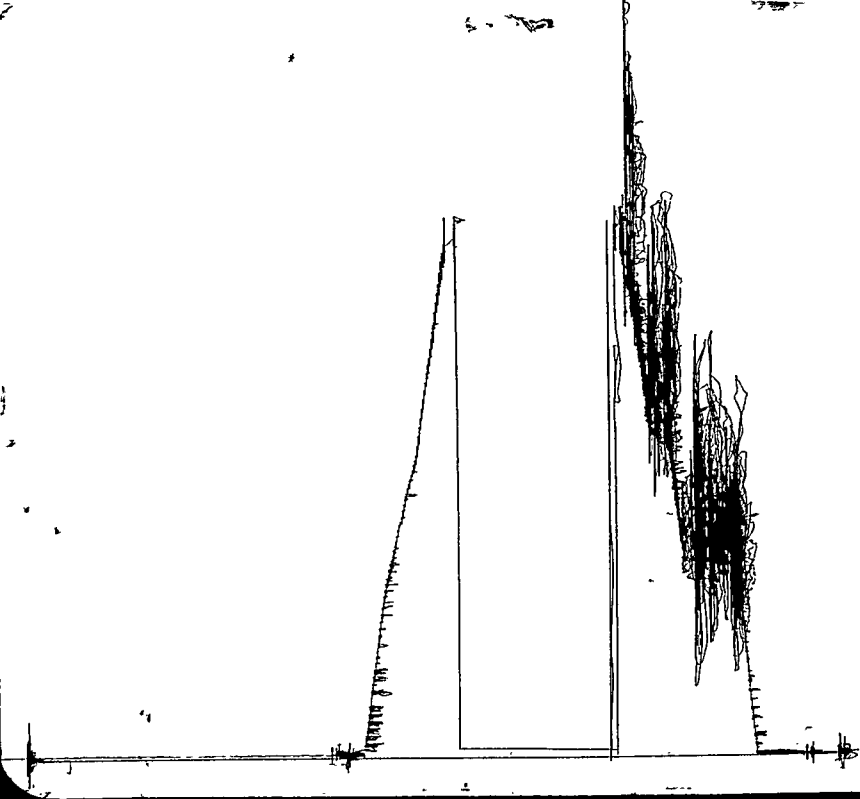
5 FEET OF MUD.

Lease and Well No. HAGGANS H #1 2 17S 27W NW NE NE

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>2364</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>40</u>
(E) Initial 2nd Flow Pressure	<u>35</u>	<u>40</u>
(F) Final 2nd Flow Pressure	<u>35</u>	<u>40</u>
(G) Final Shut-in Pressure	<u>35</u>	<u>40</u>
(H) Final Hydrostatic Pressure	<u>2347</u>	<u>2347</u>



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