

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING COMPANY

Lease and Well No. HAGANS "J" #1

County LANE State KANSAS Date APRIL 24, 1971

Formation Test No. 1 Total Depth 4125 Elev. 2589 K.B.

Interval Tested 4099 To 4125 Anchor Length 26'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4

Mud Weight 9.8 Viscosity 45 Water Loss 10.9 c.c. Bottom Hole Temp. 108 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11453

Length of Drill Collar I. D. Length Flexweight 748 I. D. 2.76

RECOVERY

WEAK BLOW FOR 14 MINUTES. FLUSHED TOOL ON SECOND OPENING
IN 10 MINUTES. NO BLOW.

15 FEET OF MUD.

Lease and Well No. HAGANS "J" #1 1 17S 27W NE NE SE

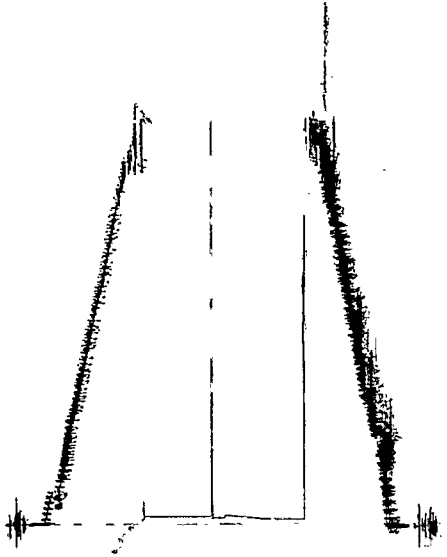
Formation Test No. 1

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>2234</u>	<u>2280</u>
(B) Initial 1st Flow Pressure	<u>33</u>	<u>27</u>
(C) Final 1st Flow Pressure	<u>33</u>	<u>29</u>
(D) Initial Shut-in Pressure	<u>44</u>	<u>54</u>
(E) Initial 2nd Flow Pressure	<u>33</u>	<u>38</u>
(F) Final 2nd Flow Pressure	<u>44</u>	<u>45</u>
(G) Final Shut-in Pressure	<u>44</u>	<u>45</u>
(H) Final Hydrostatic Pressure	<u>2166</u>	<u>2257</u>

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MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING COMPANY

Lease and Well No. HAGANS "J" #1

County LANE State KANSAS Date APRIL 25, 1971

Formation Test No. 2 Total Depth 4163 Elev. 2589 K.B.
 Interval Tested 4127 To 4163 Anchor Length 36'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
 Mud Weight 9.8 Viscosity 45 Water Loss 10.9 c.c. Bottom Hole Temp. 110 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 11454
 Length of Drill Collar _____ I. D. _____ Length Flexweight 748 I. D. 2.76

RECOVERY

WEAK BLOW FOR 2 MINUTES. FLUSHED TOOL ON SECOND OPENING
 IN 10 MINUTES. NO BLOW.

5 FEET OF MUD.

Lease and Well No. HAGANS "J" #1 1 17S 27W NE NE SE

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.

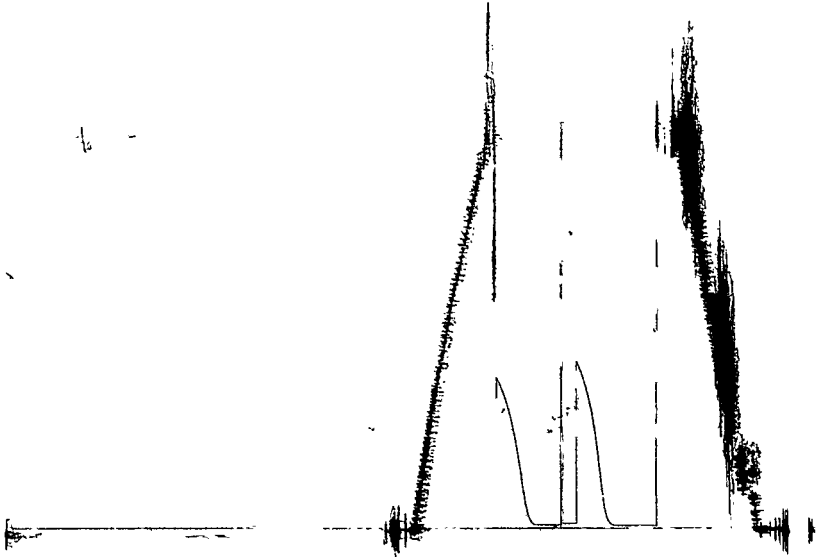
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2460</u>	<u>2302</u>
(B) Initial 1st Flow Pressure	<u>11</u>	<u>16</u>
(C) Final 1st Flow Pressure	<u>11</u>	<u>18</u>
(D) Initial Shut-in Pressure	<u>945</u>	<u>957</u>
(E) Initial 2nd Flow Pressure	<u>22</u>	<u>27</u>
(F) Final 2nd Flow Pressure	<u>22</u>	<u>20</u>
(G) Final Shut-in Pressure	<u>845</u>	<u>863</u>
(H) Final Hydrostatic Pressure	<u>2279</u>	<u>2291</u>

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GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING COMPANY

Lease and Well No. HAGANS "J" # 1

County LANE State KANSAS

Date APRIL 26, 1971

Formation Test No. 3 Total Depth 4230 Elev. 2589 K.B.
Interval Tested 4197 To 4230 Anchor Length 33'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 9.8 Viscosity 45 Water Loss 10.9 c.c. Bottom Hole Temp. 112 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11455
Length of Drill Collar I. D. Length Flexweight 748 I. D. 2.76

RECOVERY

WEAK BLOW FOR 44 MINUTES. FLUSHED TOOL ON SECOND OPENING
IN 15 MINUTES. WEAK BLOW FOR 14 MINUTES.

130 FEET OF MUDDY WATER.

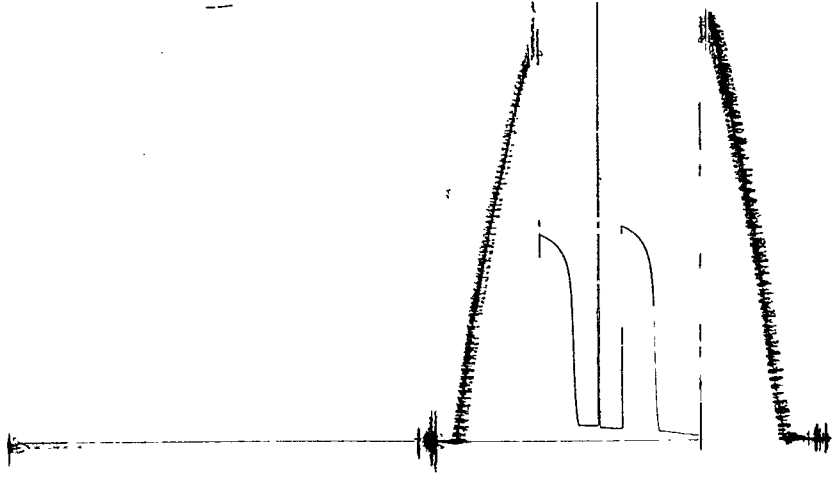
Lease and Well No. HAGANS "J" # 1 1 1 17S 27W NE NE SE

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>2302</u>	<u>2314</u>
(B) Initial 1st Flow Pressure	<u>22</u>	<u>29</u>
(C) Final 1st Flow Pressure	<u>56</u>	<u>52</u>
(D) Initial Shut-in Pressure	<u>1224</u>	<u>1229</u>
(E) Initial 2nd Flow Pressure	<u>67</u>	<u>72</u>
(F) Final 2nd Flow Pressure	<u>89</u>	<u>94</u>
(G) Final Shut-in Pressure	<u>1180</u>	<u>1184</u>
(H) Final Hydrostatic Pressure	<u>2189</u>	<u>2302</u>

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GREAT BEND, KANSAS

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Lease and Well No. HAGANS "J" #1

County LANE State KANSAS Date APRIL 27, 1971

Formation Test No. 4 Total Depth 4350 Elev. 2589 K.B.

Interval Tested 4265 To 4350 Anchor Length 85'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4

Mud Weight 9.9 Viscosity 44 Water Loss 11.2 c.c. Bottom Hole Temp. 116 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11456

Length of Drill Collar I. D. Length Flexweight 748 I. D. 2.76

RECOVERY

WEAK BLOW FOR 27 MINUTES. FLUSHED TOOL ON SECOND OPENING IN
10 MINUTES. WEAK BLOW FOR 4 MINUTES.

25 FEET OF WATERY MUD.

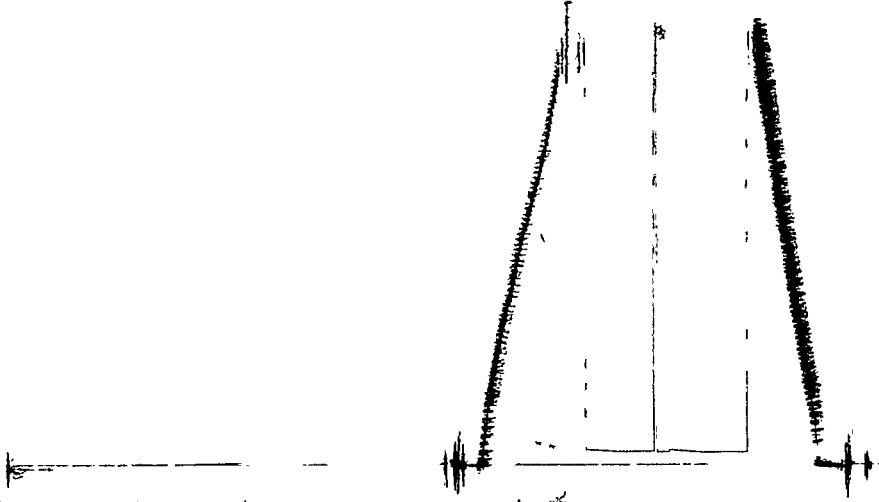
Lease and Well No. HAGANS "J" #1 1 1 17S 27W NE NE SE

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>2370</u>	<u>2460</u>
(B) Initial 1st Flow Pressure	<u>67</u>	<u>72</u>
(C) Final 1st Flow Pressure	<u>67</u>	<u>74</u>
(D) Initial Shut-in Pressure	<u>89</u>	<u>90</u>
(E) Initial 2nd Flow Pressure	<u>67</u>	<u>74</u>
(F) Final 2nd Flow Pressure	<u>78</u>	<u>78</u>
(G) Final Shut-in Pressure	<u>89</u>	<u>92</u>
(H) Final Hydrostatic Pressure	<u>2347</u>	<u>2438</u>

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