

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No HAGANS G-1

County LANE State KANSAS Date APRIL 10, 1971

Formation Test No. 1 Total Depth 4165 Elev. \_\_\_\_\_

Interval Tested 4134 To 4165 Anchor Length 31'

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

Mud Weight 9.7 Viscosity 40 Water Loss 5 c.c. Bottom Hole Temp. 114 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11413

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 786 I. D. 2.76

### RECOVERY

STRONG BLOW OF GAS TO SURFACE IN 26 MINUTES.

3180 FEET OF OIL.

Lease and Well No. HAGANS G-1 1 17S 27W NW SW NE

Formation Test No. 1

Tool Open: 1st Flow     hr. 30 mins: Shut-in Initial     hr. 45 min: 2nd Flow 1 hr.     min: Shut-in Final     hr. 45 min.

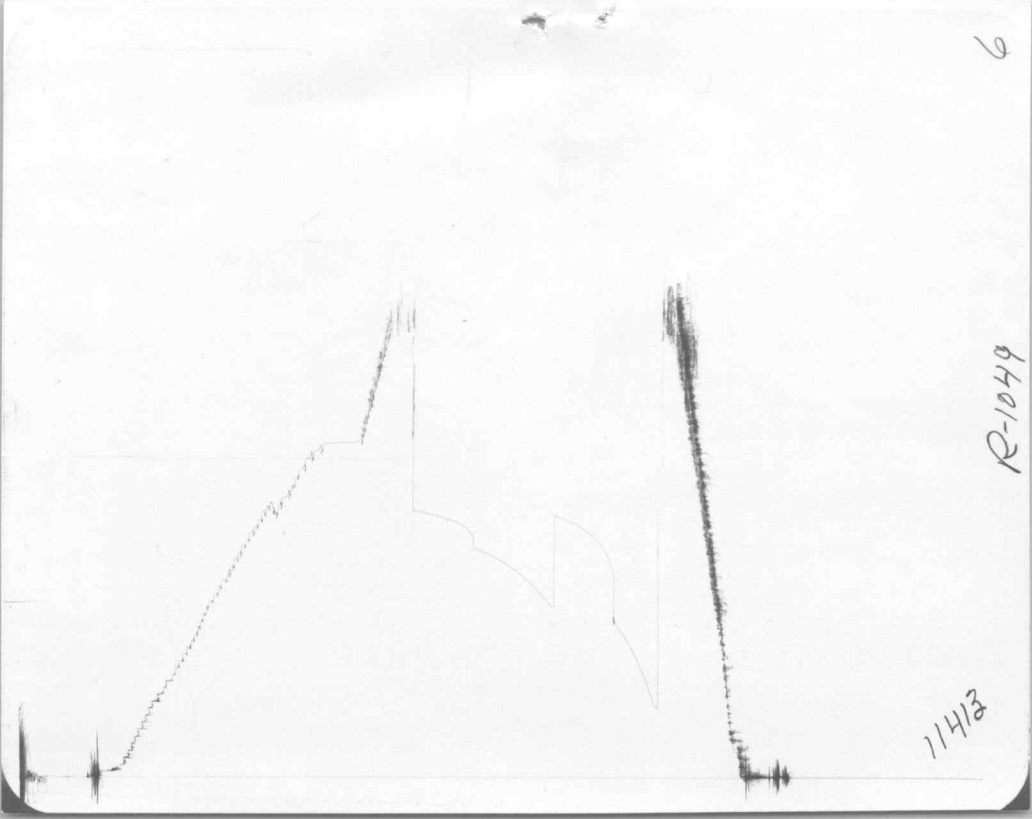
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2168</u>	<u>2196</u>
(B) Initial 1st Flow Pressure	<u>329</u>	<u>329</u>
(C) Final 1st Flow Pressure	<u>732</u>	<u>741</u>
(D) Initial Shut-in Pressure	<u>1244</u>	<u>1241</u>
(E) Initial 2nd Flow Pressure	<u>805</u>	<u>809</u>
(F) Final 2nd Flow Pressure	<u>1079</u>	<u>1089</u>
(G) Final Shut-in Pressure	<u>1244</u>	<u>1263</u>
(H) Final Hydrostatic Pressure	<u>2157</u>	<u>2178</u>



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R-1049

11413



# MILLER TESTING COMPANY

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## GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGANS G-1

County LANE State KANSAS Date APRIL 11, 1971

Formation Test No. 2 Total Depth 4195 Elev. \_\_\_\_\_

Interval Tested 4165 To 4195 Anchor Length 30'

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

Mud Weight 9.5 Viscosity 35 Water Loss 7 c.c. Bottom Hole Temp. 115 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11414

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 786 I. D. 2.76

### RECOVERY

WEAK BLOW FOR 12 MINUTES. FLUSHED TOOL IN 5 MINUTES ON SECOND OPENING. WEAK BLOW FOR 2 MINUTES.

15 FEET OF DRILLING MUD.

Lease and Well No.

HAGANS G-1 1 17S 27W

NW SW NE

Formation Test No. 2

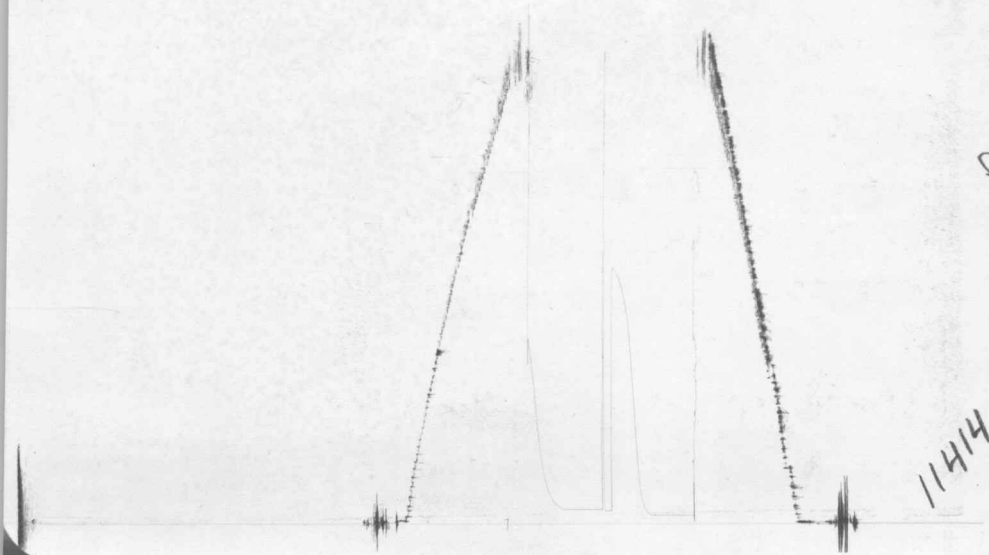
Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2195</u>	<u>2187</u>
(B) Initial 1st Flow Pressure	<u>45</u>	<u>40</u>
(C) Final 1st Flow Pressure	<u>45</u>	<u>42</u>
(D) Initial Shut-in Pressure	<u>1189</u>	<u>1217</u>
(E) Initial 2nd Flow Pressure	<u>54</u>	<u>64</u>
(F) Final 2nd Flow Pressure	<u>58</u>	<u>73</u>
(G) Final Shut-in Pressure	<u>860</u>	<u>878</u>
(H) Final Hydrostatic Pressure	<u>2183</u>	<u>2187</u>

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## GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGANS G-1

County LANE State KANSAS Date APRIL 12, 1971

Formation Test No. 3 Total Depth 4255 Elev. \_\_\_\_\_

Interval Tested 4195 To 4255 Anchor Length 60'

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

Mud Weight 9.7 Viscosity 45 Water Loss 6 c.c. Bottom Hole Temp. 116 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11415

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 786 I. D. 2.76

### RECOVERY

WEAK BLOW SOMETIME INTERMITTENT THROUGHOUT TEST.

70 FEET SLIGHTLY OIL CUT MUD.

Lease and Well No. HAGANS G-1 1 17S 27W NW SW NE

Formation Test No. 3

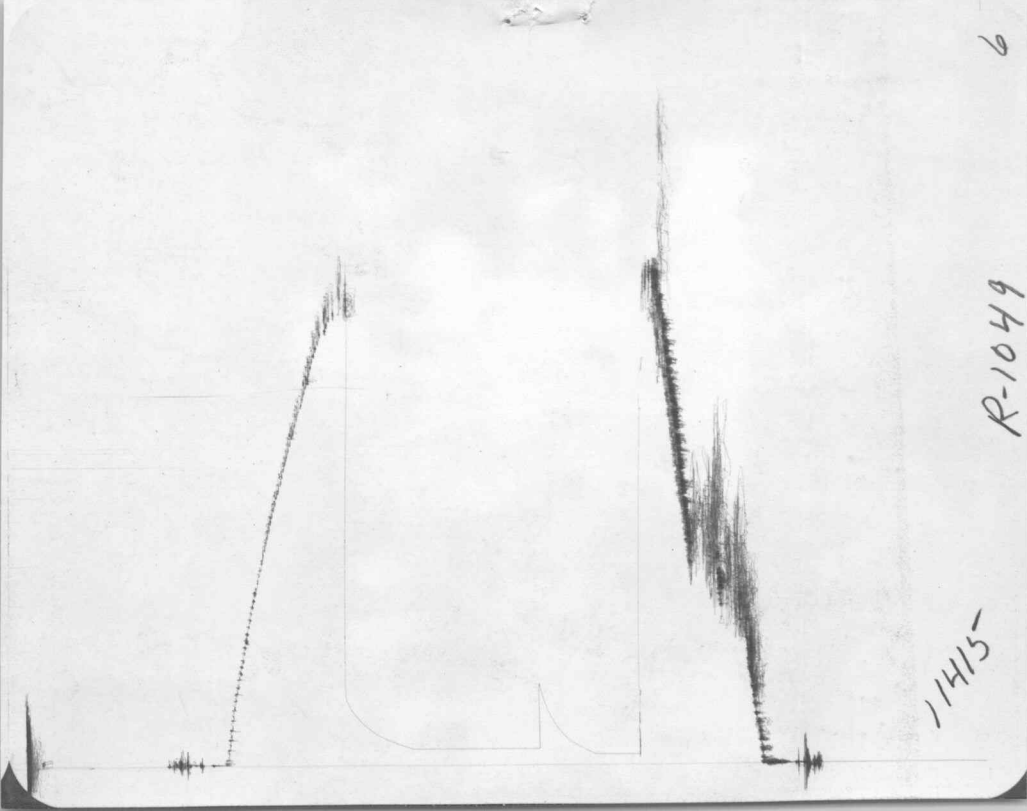
Tool Open: 1st Flow      hr. 30 mins: Shut-in Initial      hr. 45 min: 2nd Flow 1 hr. 30 min: Shut-in Final      hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2241</u>	<u>2251</u>
(B) Initial 1st Flow Pressure	<u>40</u>	<u>51</u>
(C) Final 1st Flow Pressure	<u>45</u>	<u>55</u>
(D) Initial Shut-in Pressure	<u>366</u>	<u>384</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>79</u>
(F) Final 2nd Flow Pressure	<u>84</u>	<u>82</u>
(G) Final Shut-in Pressure	<u>311</u>	<u>311</u>
(H) Final Hydrostatic Pressure	<u>2223</u>	<u>2242</u>

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GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGANS G-1

County LANE State KANSAS Date APRIL 12, 1971

Formation Test No. 4 Total Depth 4334 Elev. \_\_\_\_\_

Interval Tested 4265 To 4334 Anchor Length 69'

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

Mud Weight 9.8 Viscosity 43 Water Loss 6 c.c. Bottom Hole Temp. 116 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11416

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 786 I. D. 2.76

## RECOVERY

WEAK BLOW FOR 9 MINUTES. FLUSHED TOOL IN 15 MINUTES ON  
SECOND OPENING. NO BLOW.

10 FEET OF DRILLING MUD.

Lease and Well No. HAGANS G-1 1 17S 27W NW SW NE

Formation Test No. 4

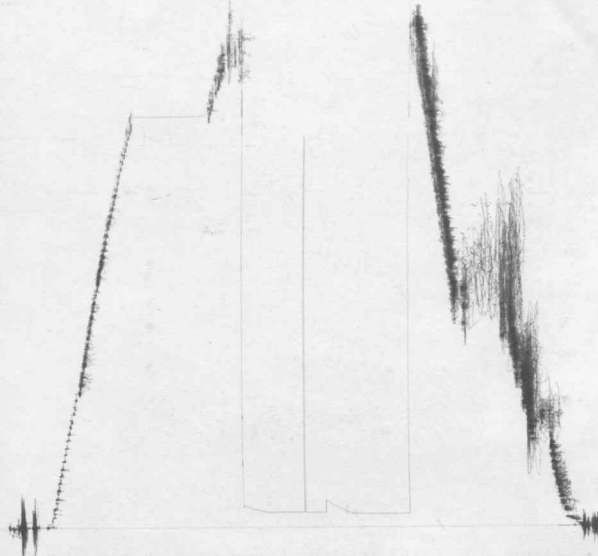
Tool Open: 1st Flow     hr. 30 mins: Shut-in Initial     hr. 30 min: 2nd Flow     hr. 30 min: Shut-in Final     hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2282</u>	<u>2269</u>
(B) Initial 1st Flow Pressure	<u>54</u>	<u>64</u>
(C) Final 1st Flow Pressure	<u>65</u>	<u>64</u>
(D) Initial Shut-in Pressure	<u>109</u>	<u>133</u>
(E) Initial 2nd Flow Pressure	<u>65</u>	<u>73</u>
(F) Final 2nd Flow Pressure	<u>65</u>	<u>77</u>
(G) Final Shut-in Pressure	<u>98</u>	<u>106</u>
(H) Final Hydrostatic Pressure	<u>2267</u>	<u>2260</u>

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## GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. HAGANS G-1

County LANE State KANSAS Date APRIL 14, 1971

Formation Test No. 5 Total Depth 4450 Elev. \_\_\_\_\_

Interval Tested 4412 To 4450 Anchor Length 38

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

Mud Weight 9.7 Viscosity 45 Water Loss 5.6 c.c. Bottom Hole Temp. 117 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11417

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 7.86 I. D. 2.76

### RECOVERY

WEAK BLOW THROUGHOUT TEST.

60 FEET OF SLIGHTLY OIL CUT MUD.

MILLER TESTING COMPANY  
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GREAT BEND, KANSAS

Lease and Well No. HAGANS G-1 1 17S 27W NW SW NE

Formation Test No. 5

Tool Open: 1st Flow     hr. 30 mins: Shut-in Initial     hr. 45 min: 2nd Flow 1 hr. 30 min: Shut-in Final     hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2369</u>	<u>2397</u>
(B) Initial 1st Flow Pressure	<u>47</u>	<u>53</u>
(C) Final 1st Flow Pressure	<u>47</u>	<u>53</u>
(D) Initial Shut-in Pressure	<u>109</u>	<u>123</u>
(E) Initial 2nd Flow Pressure	<u>54</u>	<u>62</u>
(F) Final 2nd Flow Pressure	<u>62</u>	<u>62</u>
(G) Final Shut-in Pressure	<u>119</u>	<u>128</u>
(H) Final Hydrostatic Pressure	<u>2355</u>	<u>2379</u>

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