

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. GRASSER # 1

County HODGEMAN State KANSAS Date APRIL 20, 1972

Formation Test No. 1 Total Depth 4580 Elev. 2351 K.B.

Interval Tested 4478 To 4580 Anchor Length 102'

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

Mud Weight 9.8 Viscosity 39 Water Loss 8.4 c.c. Bottom Hole Temp. 88 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11733

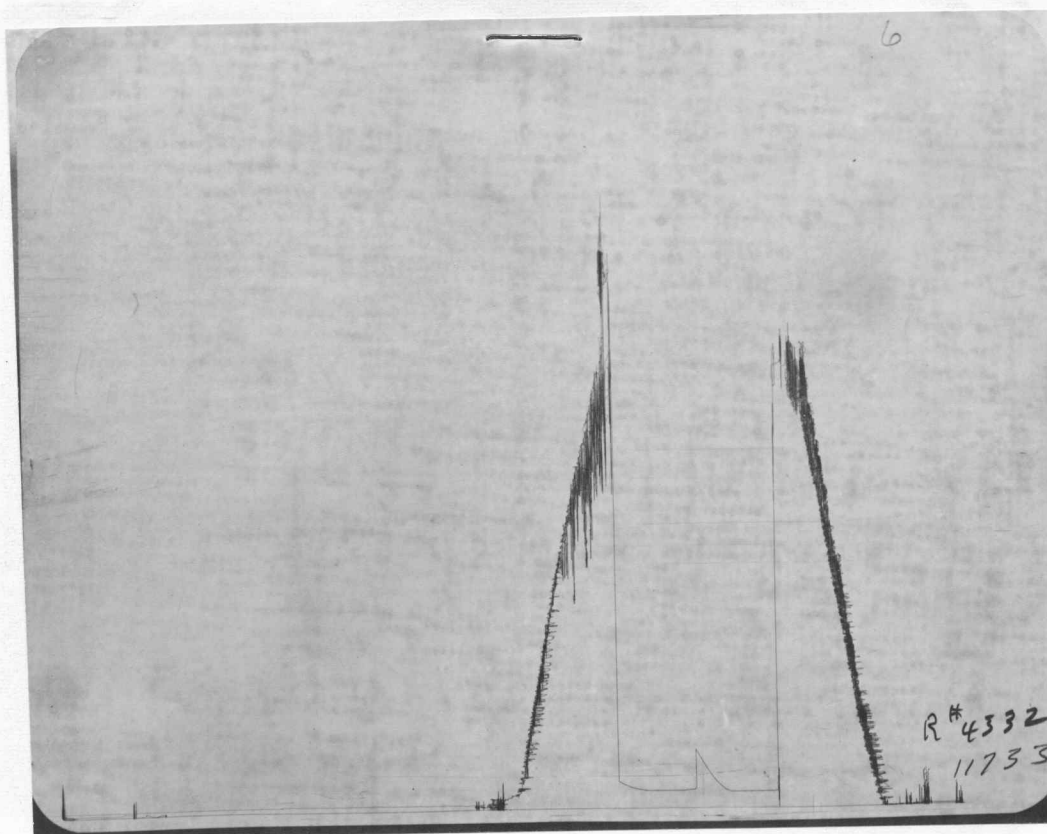
Length of Drill Collar I. D. Length Flexweight 1085 I. D. 2.76

RECOVERY

WEAK BLOW FOR 12 MINUTES THEN DEAD.

10 FEET OF MUD-NO SHOW OF OIL.

Lease and Well No. GRASSER # 1 23 24S 22W C SW 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>2464</u>	<u>2453</u>
(B) Initial 1st Flow Pressure	<u>87</u>	<u>95</u> ✓
(C) Final 1st Flow Pressure	<u>87</u>	<u>95</u>
(D) Initial Shut-in Pressure	<u>346</u>	<u>335</u>
(E) Initial 2nd Flow Pressure	<u>97</u>	<u>106</u>
(F) Final 2nd Flow Pressure	<u>97</u>	<u>106</u> ✓
(G) Final Shut-in Pressure	<u>152</u>	<u>162</u>
(H) Final Hydrostatic Pressure	<u>2453</u>	<u>2438</u>

11733

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Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. GRASSER # 1

County HODGEMAN State KANSAS

Date APRIL 21, 1972

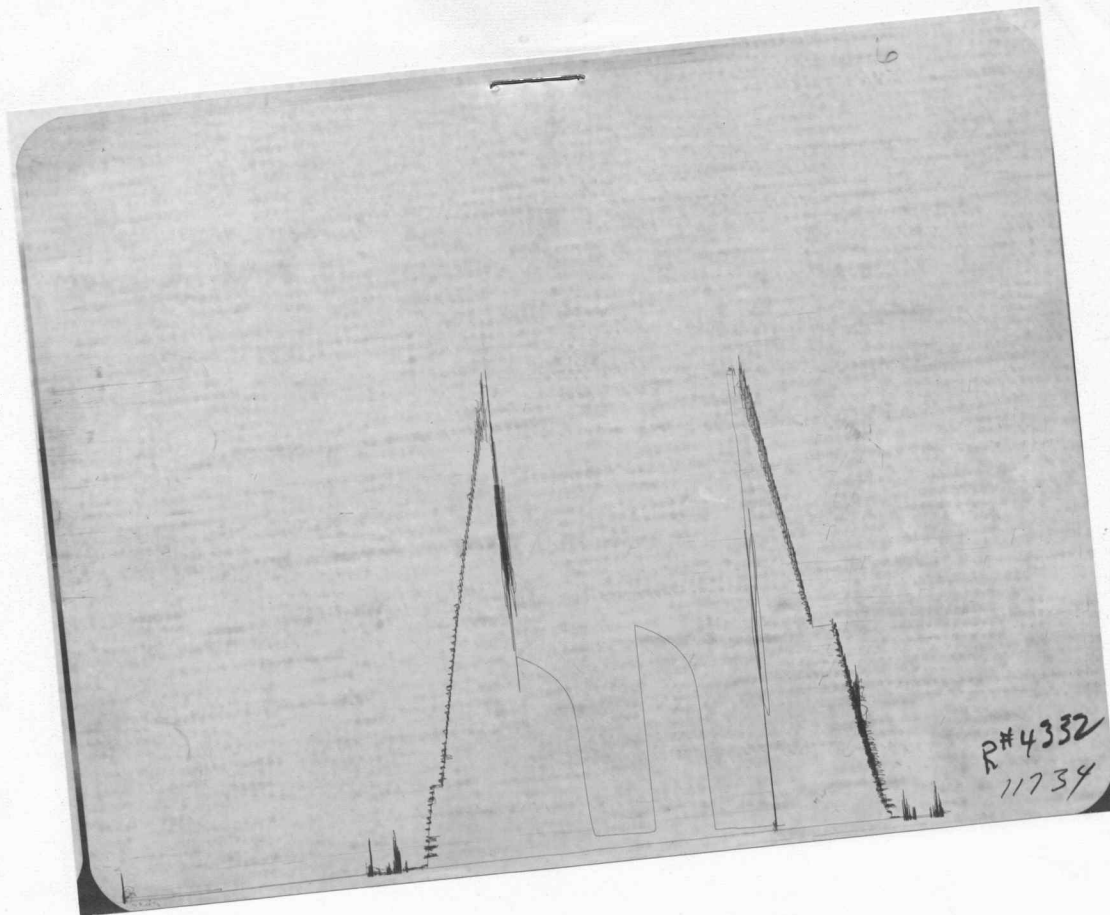
Formation Test No. 2 Total Depth 4740 Elev. 2351 K.B.
Interval Tested 4732 To 4740 Anchor Length 8'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 9.8 Viscosity 49 Water Loss 10.8 c.c. Bottom Hole Temp. 118 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11734
Length of Drill Collar I. D. Length Flexweight 1085 I. D. 2.76

RECOVERY

WEAK BLOW DECREASING SOME BY END OF TEST

136 FEET OF WATER.

Lease and Well No. GRASSER # 1 23 24S 22W C SW SW
Formation Test No. 2



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2485</u>	<u>2560</u>
(B) Initial 1st Flow Pressure	<u>22</u>	<u>32</u>
(C) Final 1st Flow Pressure	<u>32</u>	<u>43</u>
(D) Initial Shut-in Pressure	<u>1232</u>	<u>1391</u>
(E) Initial 2nd Flow Pressure	<u>54</u>	<u>74</u>
(F) Final 2nd Flow Pressure	<u>65</u>	<u>87</u>
(G) Final Shut-in Pressure	<u>1115</u>	<u>1130</u>
(H) Final Hydrostatic Pressure	<u>2474</u>	<u>2538</u>

11734