

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ISERN - WELLS

Lease and Well No. TORRANCE #2

County BARTON State KANSAS Date JANUARY 29, 1968

Formation Test No. 1 Total Depth 3325 Elev. _____
Interval Tested 3304 To 3325 Anchor Length 21'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 Size Packer 6 3/4
Mud Weight 10 Viscosity 44 Water Loss 96 c.c. Bottom Hole Temp. 101 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8773

RECOVERY

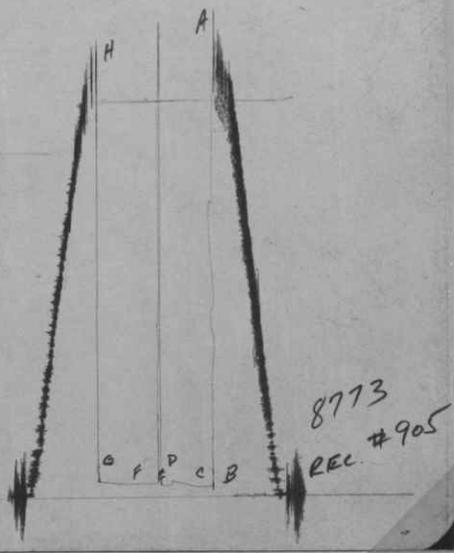
WEAK BLOW FOR 11 MINUTES. FLUSHED TOOL IN 5 MINUTES ON SECOND OPENING. WEAK BLOW FOR 3 MINUTES.

10 FEET OF MUD WITH FEW OIL SPOTS.

Lease and Well No. TORRANCE #2 20 20S 11W SE SW NW

Formation Test No. 1

6



Tool Open: 1st Flow hr. 10 mins: Shut-in Initial hr. 20 min: 2nd Flow hr. 30 min: Shut-in Final hr. 20 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1880	1887
(B) Initial 1st Flow Pressure	44	44
(C) Final 1st Flow Pressure	44	44
(D) Initial Shut-in Pressure	68	68
(E) Initial 2nd Flow Pressure	51	51
(F) Final 2nd Flow Pressure	51	59
(G) Final Shut-in Pressure	68	68
(H) Final Hydrostatic Pressure	1871	1870

8773

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GREAT BEND, KANSAS

Company ISERN - WELLS

Lease and Well No. TORRANCE #2

County BARTON State KANSAS Date JANUARY 30, 1968

Formation Test No.	<u>2</u>	Total Depth	<u>3335</u>	Elev.	
Interval Tested	<u>3324</u>	To	<u>3335</u>	Anchor Length	<u>11'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>10</u>	Viscosity	<u>44</u>	Water Loss	<u>9.6</u> c.c.
				Bottom Hole Temp.	<u>101</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>8774</u>

RECOVERY

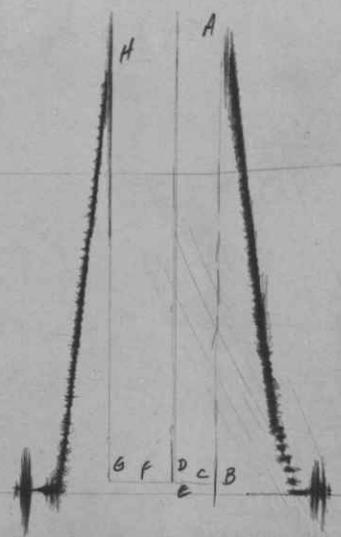
WEAK BLOW FOR 10 MINUTES. FLUSHED TOOL IN 5 MINUTES ON SECOND OPENING. WEAK BLOW FOR 3 MINUTES.

10 FEET OF MUD WITH FEW OIL SPOTS.

Lease and Well No. TORRANCE #2 20 20S 11W SE SW NW

Formation Test No. 2

6



8774
REC #905

Tool Open: 1st Flow hr. 10 mins: Shut-in Initial hr. 20 min: 2nd Flow hr. 30 min: Shut-in Final hr. 20 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1904</u>	<u>1899</u>
(B) Initial 1st Flow Pressure	<u>42</u>	<u>42</u>
(C) Final 1st Flow Pressure	<u>42</u>	<u>42</u>
(D) Initial Shut-in Pressure	<u>62</u>	<u>54</u>
(E) Initial 2nd Flow Pressure	<u>51</u>	<u>46</u>
(F) Final 2nd Flow Pressure	<u>51</u>	<u>51</u>
(G) Final Shut-in Pressure	<u>62</u>	<u>51</u>
(H) Final Hydrostatic Pressure	<u>1895</u>	<u>1870</u>

8774

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Box 547

GREAT BEND, KANSAS

Company ISERN - WELLS

Lease and Well No. TORRANCE #2

County BARTON State KANSAS Date JANUARY 30, 1968

Formation Test No. 3 Total Depth 3345 Elev. _____

Interval Tested 3334 To 3345 Anchor Length 11'

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

Mud Weight 10 Viscosity 42 Water Loss 11.6 c.c. Bottom Hole Temp. 101 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8775

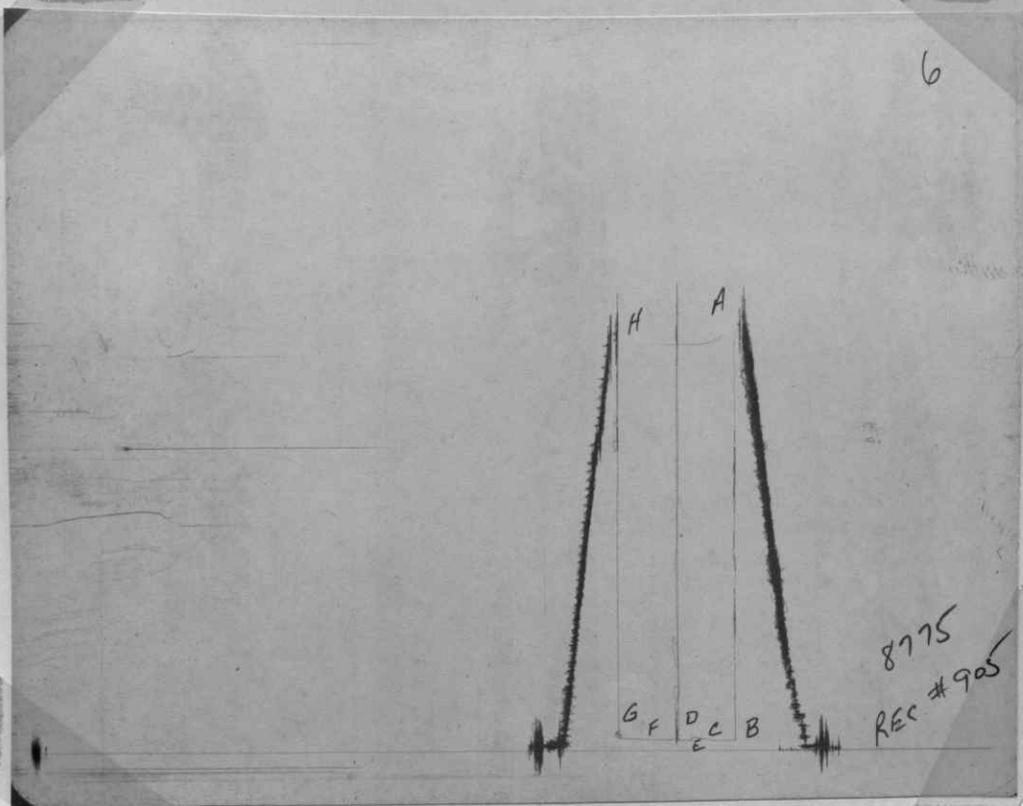
RECOVERY

WEAK BLOW FOR 17 MINUTES. FLUSHED TOOL IN 10 MINUTES ON SECOND OPENING. WEAK BLOW FOR 2 MINUTES.

15 FEET OF MUD WITH FEW OIL SPECKS.

Lease and Well No. TORRANCE #2 20 20S 11W SE SW NW
Formation Test No. 3

6



Tool Open: 1st Flow hr. 10 mins: Shut-in Initial hr. 20 min: 2nd Flow hr. 30 min: Shut-in Final hr. 20 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1892	1870
(B) Initial 1st Flow Pressure	44	42
(C) Final 1st Flow Pressure	44	42
(D) Initial Shut-in Pressure	61	58
(E) Initial 2nd Flow Pressure	51	44
(F) Final 2nd Flow Pressure	51	46
(G) Final Shut-in Pressure	61	53
(H) Final Hydrostatic Pressure	1880	1853

8775

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Company ISERN - WELLS

Lease and Well No. TORRANCE #2

County BARTON State KANSAS Date JANUARY 30, 1968

Formation Test No.	<u>4</u>	Total Depth	<u>3375</u>	Elev.	
Interval Tested	<u>3344</u>	To	<u>3375</u>	Anchor Length	<u>31'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>10</u>	Viscosity	<u>42</u>	Water Loss	<u>11.6</u> c.c.
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Bottom Hole Temp.	<u>102</u> °F
				Ticket No.	<u>9101</u>

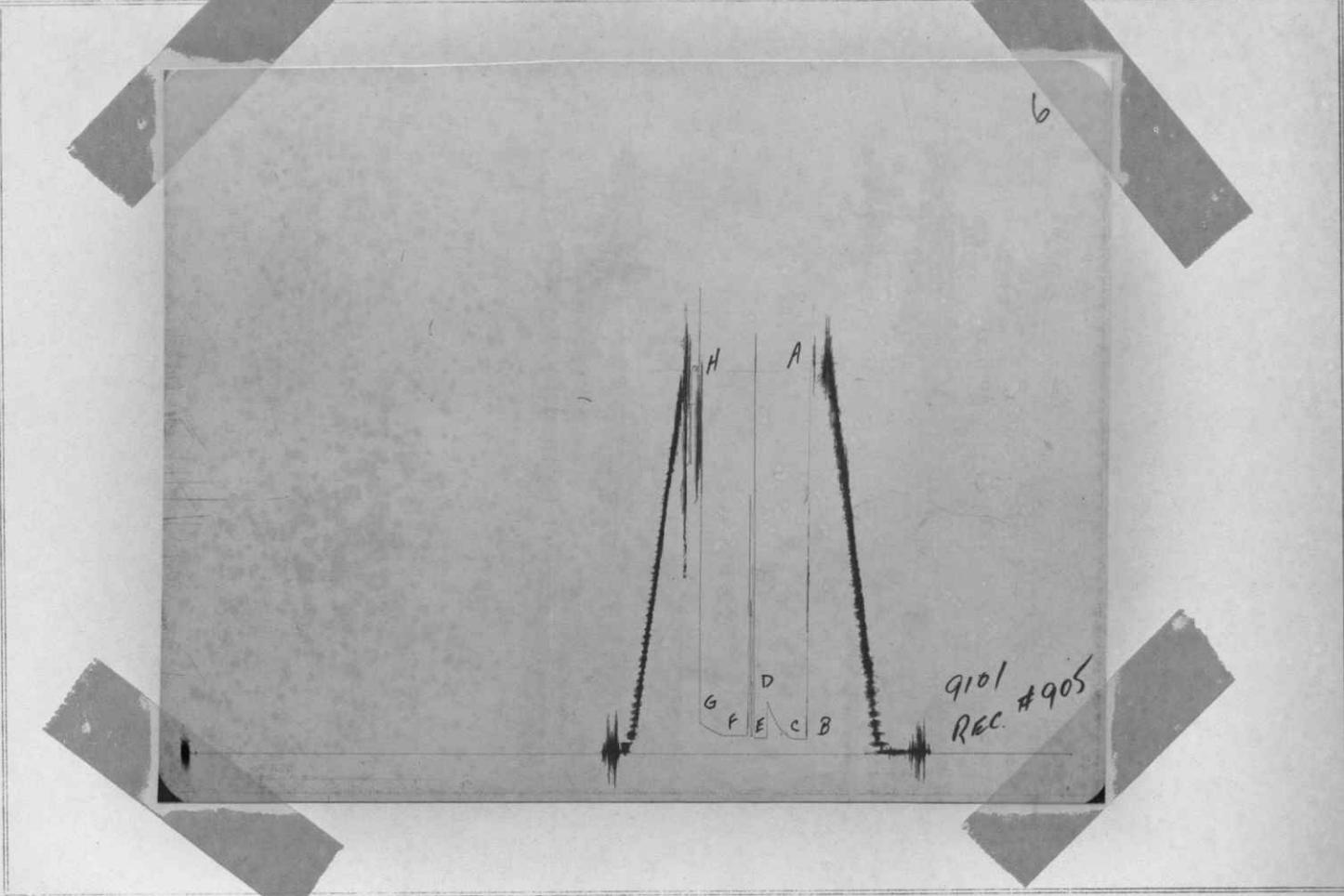
RECOVERY

WEAK BLOW FOR 18 MINUTES. FLUSHED TOOL IN 20 MINUTES ON SECOND OPENING. WEAK BLOW FOR 5 MINUTES.

60 FEET OF MUD WITH FEW OIL SPECKS.

Lease and Well No. TORRANCE #2 20 20S 11W SE SW NW

Formation Test No. 4



Tool Open: 1st Flow hr. 10 mins: Shut-in Initial hr. 20 min: 2nd Flow hr. 30 min: Shut-in Final hr. 20 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1895</u>	<u>1921</u>
(B) Initial 1st Flow Pressure	<u>68</u>	<u>71</u>
(C) Final 1st Flow Pressure	<u>68</u>	<u>71</u>
(D) Initial Shut-in Pressure	<u>246</u>	<u>250</u>
(E) Initial 2nd Flow Pressure	<u>85</u>	<u>76</u>
(F) Final 2nd Flow Pressure	<u>85</u>	<u>85</u>
(G) Final Shut-in Pressure	<u>154</u>	<u>146</u>
(H) Final Hydrostatic Pressure	<u>1880</u>	<u>1887</u>

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GREAT BEND, KANSAS

Company ISERN - WELLS

Lease and Well No. TORRANCE #2

County BARTON State KANSAS Date JANUARY 31, 1968

Formation Test No.	<u>5</u>	Total Depth	<u>3395</u>	Elev.	
Interval Tested	<u>3374</u>	To	<u>3395</u>	Anchor Length	<u>21'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>10</u>	Viscosity	<u>42</u>	Water Loss	<u>11.6</u> c.c.
				Bottom Hole Temp.	<u>106</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>9102</u>

RECOVERY

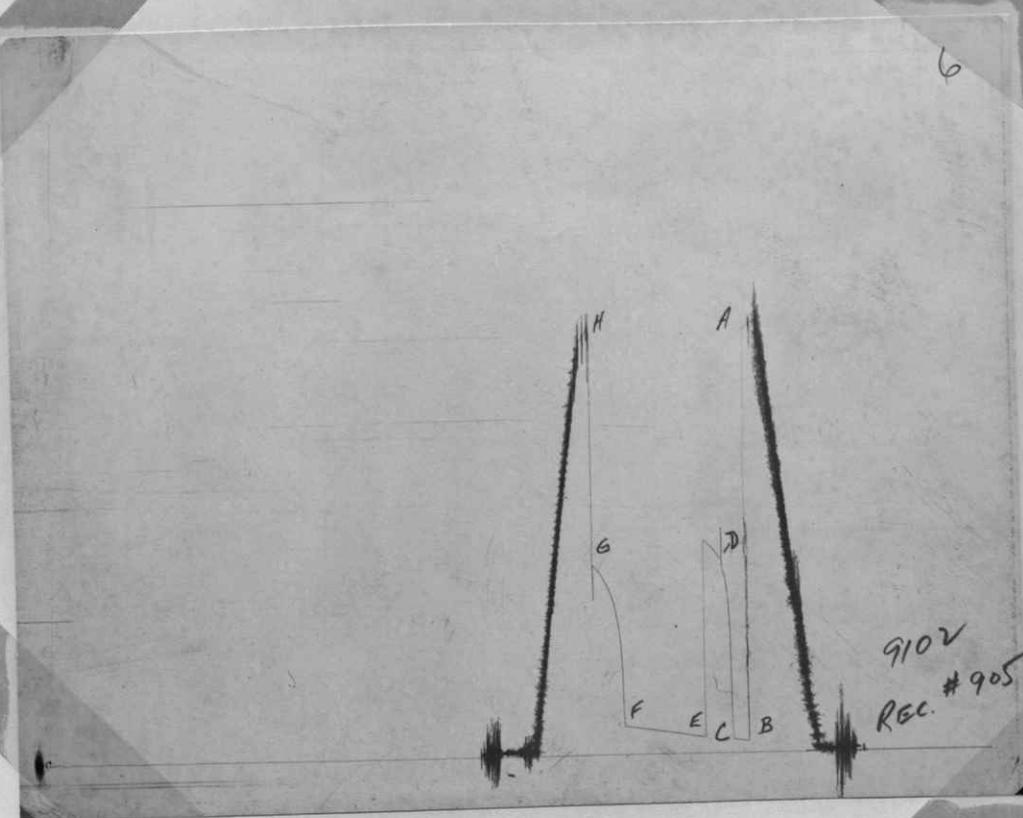
FAIR BLOW THROUGHOUT TEST.

180 FEET OF MUDDY WATER.

FINAL 10 MINUTES OF INITIAL SHUT-IN PRESSURE IS FALSE
READING DUE TO PIPE SLIDING WHILE SLIPS WERE SET DURING
INITIAL SHUT-IN PERIOD.

Lease and Well No. TORRANCE #2 20 20S 11W SE SW NW

Formation Test No. 5



Tool Open: 1st Flow 10 hrs. 10 mins: Shut-in Initial 20 hrs. 20 min: 2nd Flow 1 hr. min: Shut-in Final 20 hrs. min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1904	1887
(B) Initial 1st Flow Pressure	52	54
(C) Final 1st Flow Pressure	59	65
(D) Initial Shut-in Pressure	935	833
(E) Initial 2nd Flow Pressure	68	75
(F) Final 2nd Flow Pressure	119	122
(G) Final Shut-in Pressure	834	840
(H) Final Hydrostatic Pressure	1892	1870