

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING CO., INC.

Lease and Well No. CRAMER #1

County LANE State KANSAS

Date OCTOBER 15, 1970

Formation Test No.	<u>2</u>	Total Depth	<u>4174</u>	Elev.	<u>2888 K.B.</u>
Interval Tested	<u>4117</u>	To	<u>4174</u>	Anchor Length	<u>57'</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>9.3</u>	Viscosity	<u>46</u>	Water Loss	<u>6</u> c.c.
				Bottom Hole Temp.	<u>110</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>10786</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>972</u>
				I. D.	<u>2.76</u>

RECOVERY

STRONG BLOW THROUGHOUT TEST.

210 FEET OF MUDDY SALT WATER.

720 FEET OF SALT WATER.

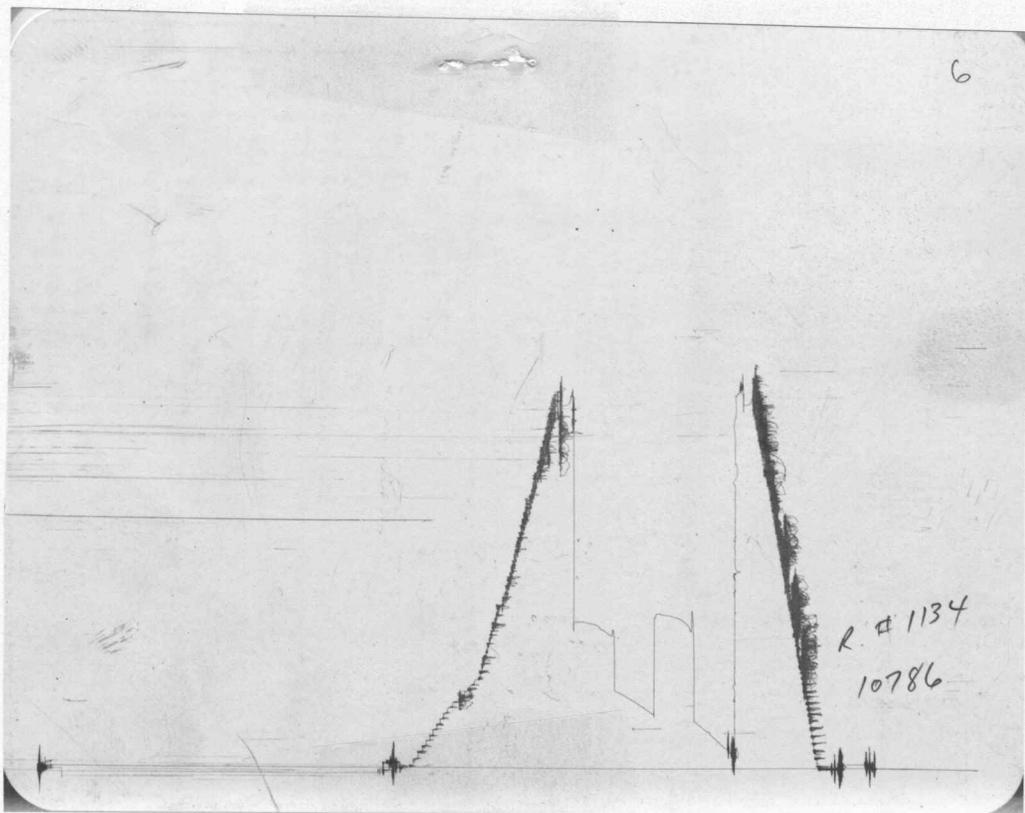
SHUT-IN TOOL LEAKED DURING INITIAL AND FINAL SHUT-IN.

Lease and Well No. CRAMER #1

20 18S 30W

C 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	2234	2234
(B) Initial 1st Flow Pressure	89	33
(C) Final 1st Flow Pressure	268	279
(D) Initial Shut-in Pressure	912	901
(E) Initial 2nd Flow Pressure	312	324
(F) Final 2nd Flow Pressure	446	457
(G) Final Shut-in Pressure	845	857
(H) Final Hydrostatic Pressure	2121	2166

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GREAT BEND, KANSAS

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Lease and Well No. CRAMER #1

County LANE State KANSAS Date OCTOBER 17, 1970

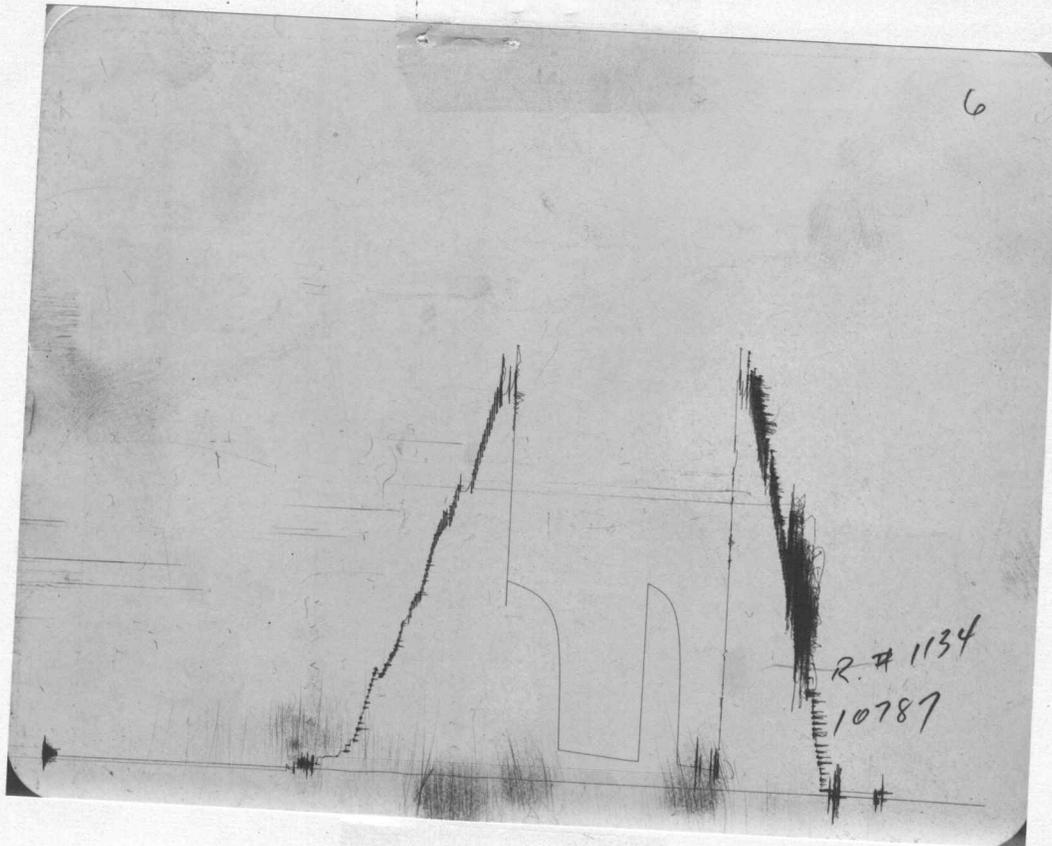
Formation Test No.	<u>3</u>	Total Depth	<u>4395</u>	Elev.	
Interval Tested	<u>4298</u>	To	<u>4395</u>	Anchor Length	<u>97'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.4</u>	Viscosity	<u>43</u>	Water Loss	<u>11.6</u> c.c.
				Bottom Hole Temp.	<u>114</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>10787</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>972</u>
				I. D.	<u>2.76</u>

RECOVERY

FAIR BLOW THROUGHOUT TEST. SHOWED A LITTLE PLUGGING AT FIRST.

90 FEET OF MUDDY WATER WITH FEW SPOTS OF OIL.
110 FEET OF SALT WATER, GRAY.

Lease and Well No. CRAMER #1 20 18S 30W C SW NE
Formation Test No. 3



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2632	2426
(B) Initial 1st Flow Pressure	111	112
(C) Final 1st Flow Pressure	134	134
(D) Initial Shut-in Pressure	1202	1202
(E) Initial 2nd Flow Pressure	134	145
(F) Final 2nd Flow Pressure	178	190
(G) Final Shut-in Pressure	1157	1169
(H) Final Hydrostatic Pressure	2528	2359

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GREAT BEND, KANSAS

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Lease and Well No. CRAMER #1

County LANE State KANSAS Date OCTOBER 18, 1970

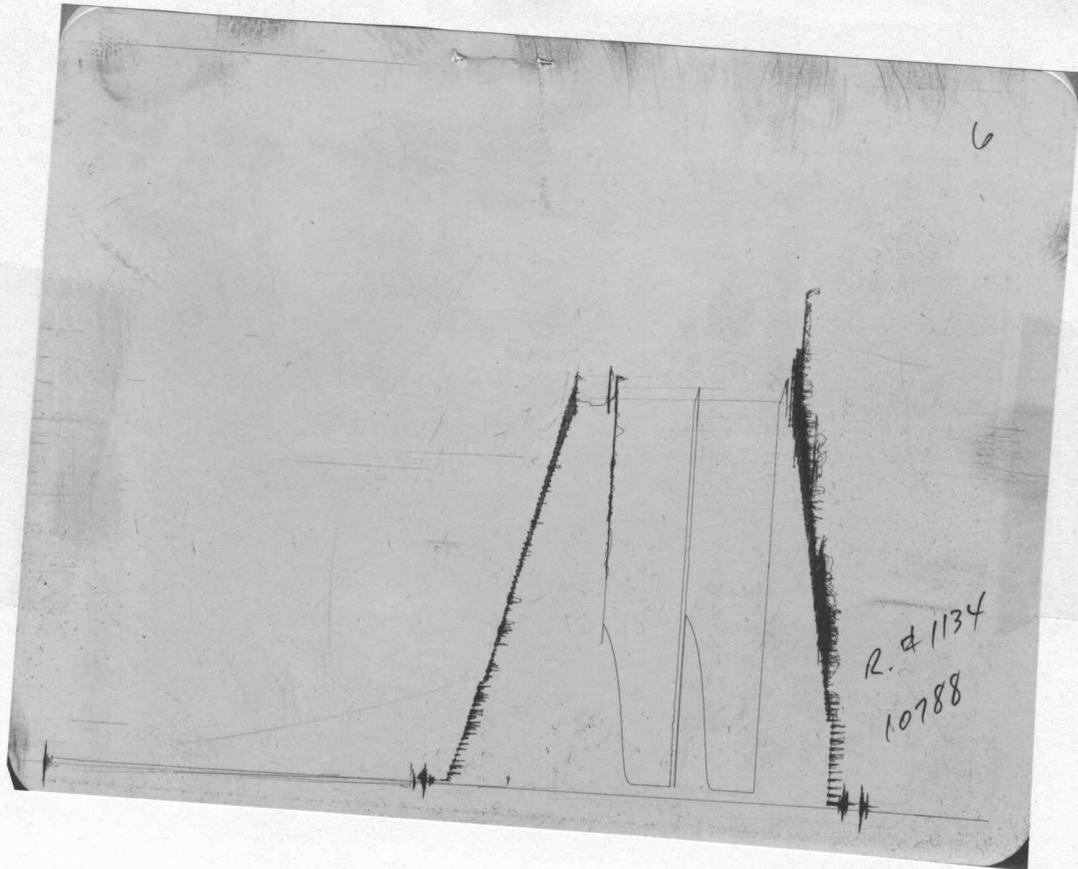
Formation Test No.	<u>4</u>	Total Depth	<u>4472</u>	Elev.	<u>2888 K.B.</u>		
Interval Tested	<u>4427</u>	To	<u>4472</u>	Anchor Length	<u>45'</u>		
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	Size Packer	<u>6 3/4</u>		
Mud Weight	<u>10</u>	Viscosity	<u>52</u>	Water Loss	<u>15.4 c.c.</u>	Bottom Hole Temp.	<u>114 °F</u>
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>10788</u>		
Length of Drill Collar		I. D.		Length Flexweight	<u>972</u>	I. D.	<u>2.76</u>

RECOVERY

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

25 FEET OF DRILLING MUD WITH FEW SPOTS OF OIL.

Lease and Well No. CRAMER #1 20 18S 30W C 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>2460</u>	<u>2460</u>
(B) Initial 1st Flow Pressure	<u>67</u>	<u>67</u>
(C) Final 1st Flow Pressure	<u>67</u>	<u>67</u>
(D) Initial Shut-in Pressure	<u>1090</u>	<u>1084</u>
(E) Initial 2nd Flow Pressure	<u>67</u>	<u>69</u>
(F) Final 2nd Flow Pressure	<u>67</u>	<u>69</u>
(G) Final Shut-in Pressure	<u>1001</u>	<u>1005</u>
(H) Final Hydrostatic Pressure	<u>2415</u>	<u>2392</u>

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