

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company ZENITH DRILLING CORP. INC.

Lease and Well No. DELANEY #1

County COMMACHE State KANSAS Date JANUARY 20, 1967

Formation Test No. 1 Total Depth 5156 Elev. 2159 KB  
Interval Tested 5119 To 5156 Anchor Length 37'  
Size Hole 7 7/8 Size Drill Pipe 4 1/2 Size Packer 6 3/4  
Mud Weight 9.7 Viscosity 45 Water Loss 15 c.c. Bottom Hole Temp. 116 ° F  
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8421

### RECOVERY

STRONG BLOW. GAS TO SURFACE IN 3 MIN. BTU 1024  
GAUGED IN 5 MIN. 734,000 CFPD 2nd OPENING  
10 887,000  
20 953,000  
30 887,000  
40 810,000  
50 810,000  
60 810,000

200 FEET OF FROGGY OIL.  
100 FEET OF OIL AND GAS CUT MUD.  
170 FEET OF GAS CUT MUD WITH OIL STAINS.

Lease and Well No. DELANEY #1 36 31S 18W NE NW

Formation Test No. 1

**36-31S-18W**

COMPANY ZENITH DRILLING CORP. INC.

DATE JANUARY 20, 1967

LEASE DELANEY

WELL NO. #1

TEST NO. 1

TICKET NO. 8421

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2721
INITIAL CLOSED IN PRESSURE	30 min.	1797
INITIAL FLOW	5 min.	320 to 311
FINAL FLOW	60 min.	306 to 384
FINAL CLOSED IN PRESSURE	30 min.	1583
FINAL HYDRO MUD PRESSURE		2690

TOTAL DEPTH 5156

PACKER DEPTH 5119

BT. No. AK-1049 DEPTH 5151

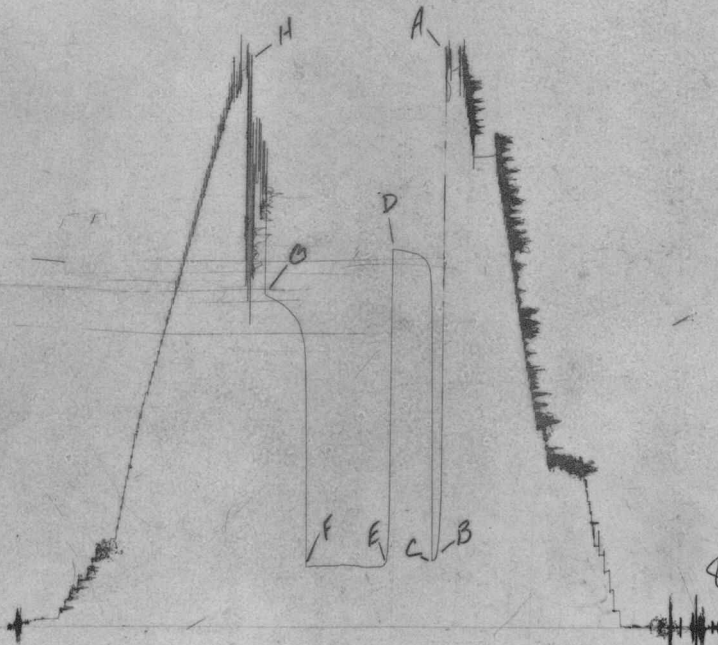
1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	320		311	306	284		284
	311		1742	300			1466
			1766	287			1501
			1782	285			1530
			1790	285			1548
			1793	285			1574
			1797	293			1583
				293			
				291			
				291			
				291			
				287			
5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS \_\_\_\_\_

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**SPECIAL PRESSURE DATA**



8421

Tool Open: 1st Flow    hr. 5 mins: Shut-in Initial    hr. 30 min: 2nd Flow 1 hr.    min: Shut-in Final    hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2718</u>	<u>2721</u>
(B) Initial 1st Flow Pressure	<u>329</u>	<u>320</u>
(C) Final 1st Flow Pressure	<u>311</u>	<u>311</u>
(D) Initial Shut-in Pressure	<u>1793</u>	<u>1797</u>
(E) Initial 2nd Flow Pressure	<u>278</u>	<u>306</u>
(F) Final 2nd Flow Pressure	<u>274</u>	<u>284</u>
(G) Final Shut-in Pressure	<u>1583</u>	<u>1583</u>
(H) Final Hydrostatic Pressure	<u>2690</u>	<u>2690</u>

8421

# MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ZENITH DRILLING CORP. INC.

Lease and Well No. DELANEY #1

County commache State KANSAS Date JANUARY 21, 1967

Formation Test No. 2 Total Depth 5172 Elev. 2159 KB

Interval Tested 5156 To 5172 Anchor Length 16'

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

Mud Weight 9.6 Viscosity 44 Water Loss 18.8 c.c. Bottom Hole Temp. 124 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8422

## RECOVERY

STRONG BLOW THROUGHOUT TEST. GAS TO SURFACE IN 10 MINS.  
OF SECOND OPENING. NOT ENOUGH TO MEASURE.  
  
200 FEET OF VERY HEAVY OIL AND GAS CUT MUD.  
300 FEET OF CLEAN GASSY OIL.  
  
600 FEET OF SALT WATER.

Lease and Well No. DELANEY #1 36 31S 18W NE NW

Formation Test No. 2

36-31S-18W  
2

COMPANY ZENITH DRILLING CORP. INC.

DATE January 21, 1967

LEASE DELANEY

WELL NO. 1

TEST NO. 2

TICKET NO. 8422

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2732
INITIAL CLOSED IN PRESSURE	30 min.	1793
INITIAL FLOW	5 min.	128 to 183
FINAL FLOW	60 min.	231 to 386
FINAL CLOSED IN PRESSURE	30 min.	1766
FINAL HYDRO MUD PRESSURE		2699

TOTAL DEPTH 5172

PACKER DEPTH 5156

BT. NO. AK-1049 DEPTH 5167

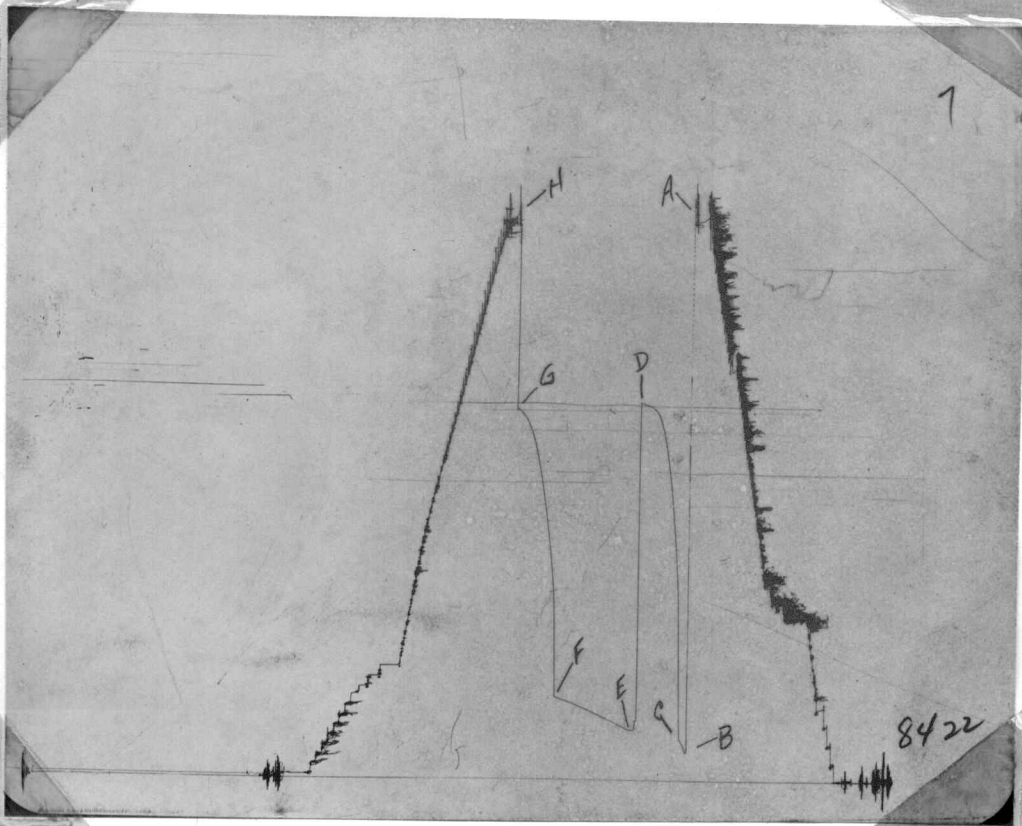
1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	128		183	231	386		386
	183		1299	234			1217
			1575	247			1455
			1720	265			1630
			1771	276			1705
			1784	293			1745
			1793	306			1766
				320			
				339			
				353			
				368			
				377			
<u>5</u>	MINUTE INTERVAL	<u>5</u>	MINUTE INTERVAL	<u>5</u>	MINUTE INTERVAL	<u>5</u>	MINUTE INTERVAL

REMARKS \_\_\_\_\_

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**SPECIAL PRESSURE DATA**



Tool Open: 1st Flow 5 hr. 5 mins: Shut-in Initial 30 hr. 30 min: 2nd Flow 1 hr.     min: Shut-in Final 30 hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2727</u>	<u>2732</u>
(B) Initial 1st Flow Pressure	<u>128</u>	<u>128</u>
(C) Final 1st Flow Pressure	<u>183</u>	<u>183</u>
(D) Initial Shut-in Pressure	<u>1793</u>	<u>1793</u>
(E) Initial 2nd Flow Pressure	<u>238</u>	<u>231</u>
(F) Final 2nd Flow Pressure	<u>384</u>	<u>386</u>
(G) Final Shut-in Pressure	<u>1757</u>	<u>1766</u>
(H) Final Hydrostatic Pressure	<u>2708</u>	<u>2699</u>

8422

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Box 547

## GREAT BEND, KANSAS

Company ZENITH DRILLING CORP. INC.

Lease and Well No. DELANEY #1

County COMMACHE State KANSAS Date JANUARY 23, 1967

Formation Test No. 3 Total Depth 5205 Elev. 2159 KB  
Interval Tested 5192 To 5205 Anchor Length 13'  
Size Hole 6 1/8 Core Hole Size Drill Pipe 4 1/2 XH Size Packer 5 1/2  
Mud Weight 9.6 Viscosity 44 Water Loss 15 c.c. Bottom Hole Temp. 130 °F  
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8423

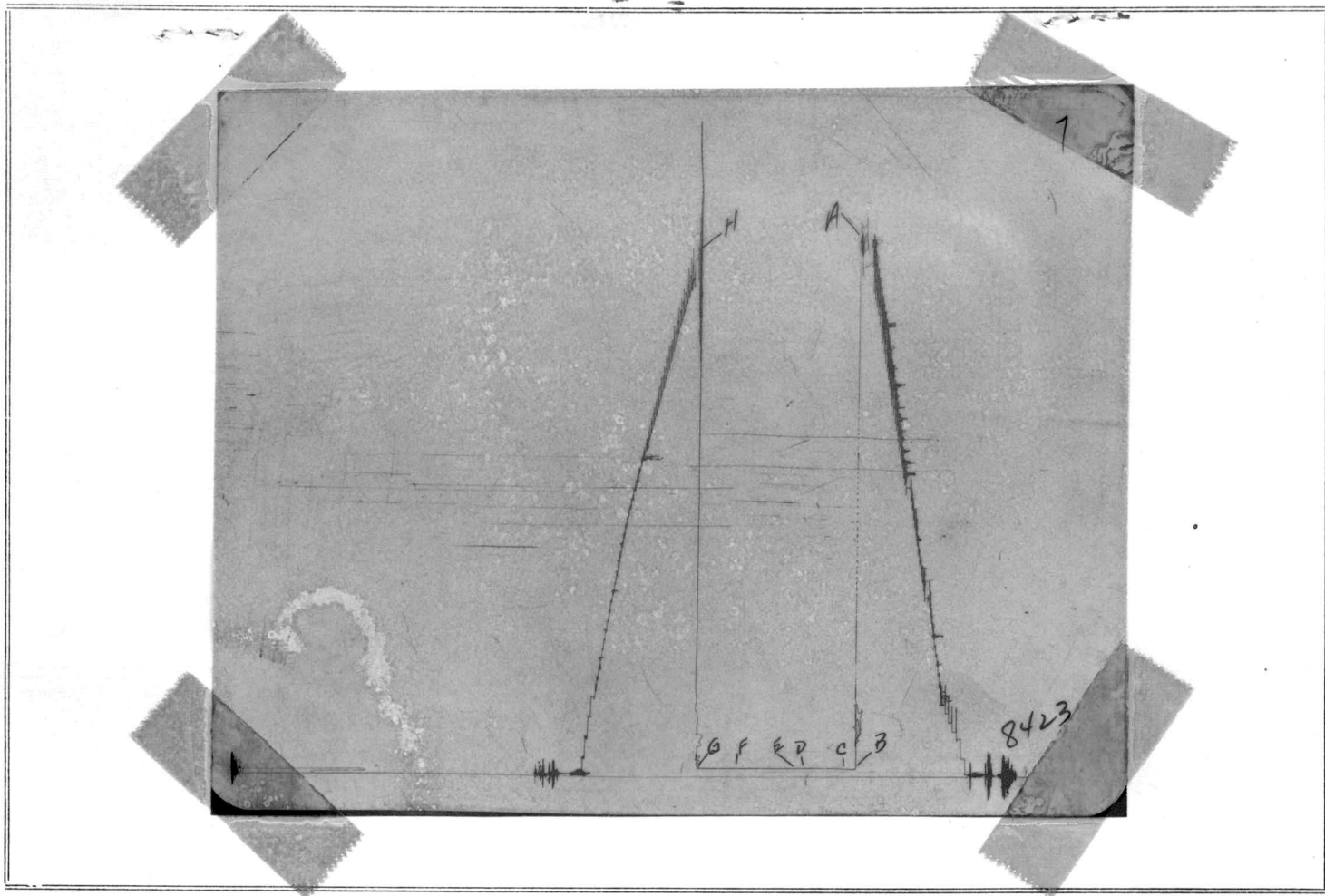
### RECOVERY

WEAK BLOW FOR 4 MIN.  
5 FEET OF DRILLING MUD.

Lease and Well No. DELANEY #1 36 31S 18W NE NW

Formation Test No. 3

36-31S-18W



Tool Open: 1st Flow 5 hr. 5 mins: Shut-in Initial 30 hr. 30 min: 2nd Flow 1 hr.     min: Shut-in Final 30 hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2763</u>	<u>2791</u>
(B) Initial 1st Flow Pressure	<u>37</u>	<u>37</u>
(C) Final 1st Flow Pressure	<u>37</u>	<u>37</u>
(D) Initial Shut-in Pressure	<u>40</u>	<u>46</u>
(E) Initial 2nd Flow Pressure	<u>40</u>	<u>46</u>
(F) Final 2nd Flow Pressure	<u>40</u>	<u>46</u>
(G) Final Shut-in Pressure	<u>40</u>	<u>46</u>
(H) Final Hydrostatic Pressure	<u>2735</u>	<u>2745</u>

8423

# MILLER TESTING COMPANY

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## GREAT BEND, KANSAS

Company ZENITH DRILLING CORP. INC.

Lease and Well No. DELANEY #1

County COMMACHE State KANSAS Date JANUARY 25, 1967

Formation Test No. 4 Total Depth 5254 Elev. 2159 KB

Interval Tested 5205 To 5254 Anchor Length 49'

Size Hole 7 7/9 Size Drill Pipe 4 1/2 XH Size Packer 6 3/4

Mud Weight 9.7 Viscosity 43 Water Loss 10.4 c.c. Bottom Hole Temp. 130 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8424

### RECOVERY

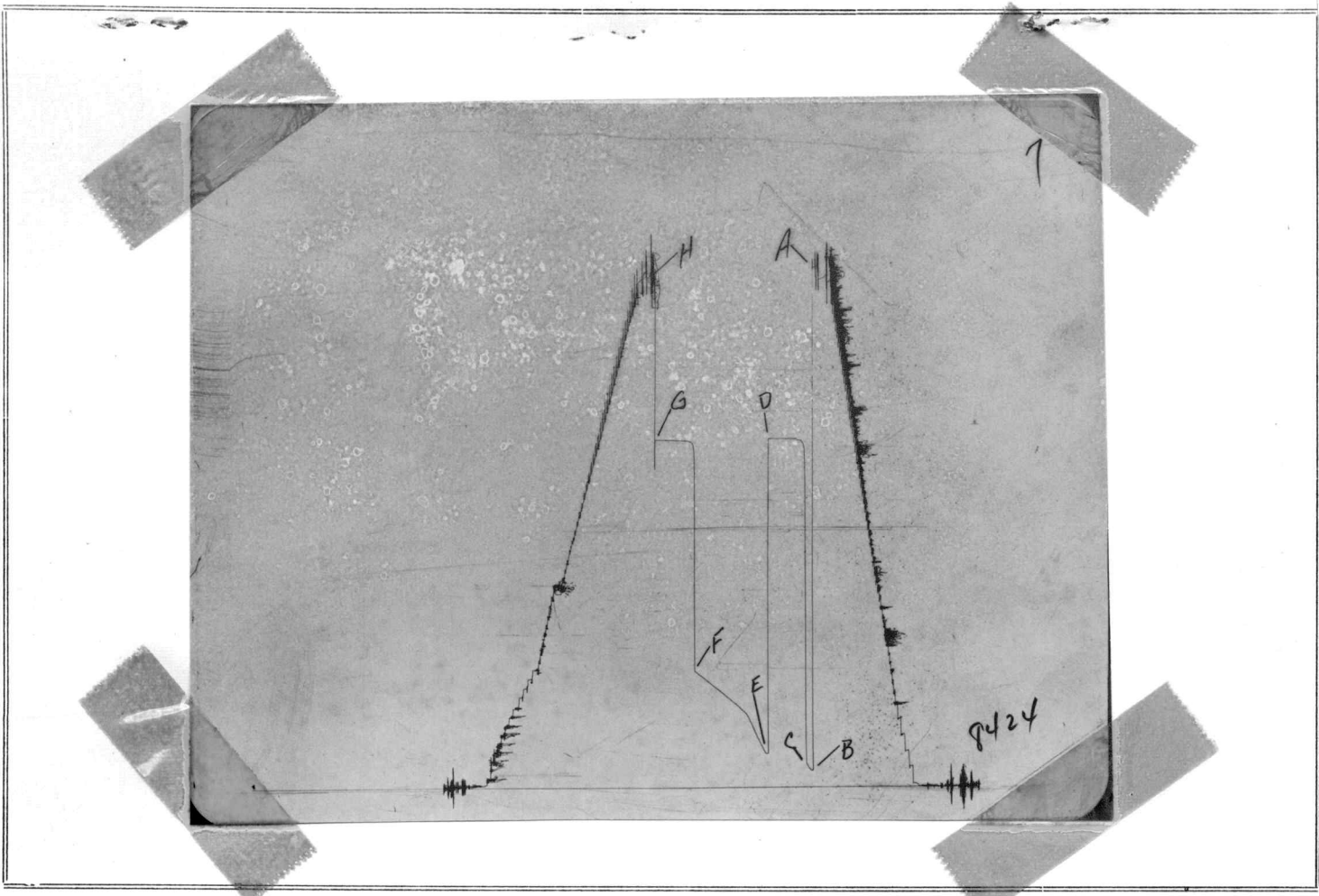
GOOD BLOW THROUGHOUT TEST.

1000 FEET OF SALT WATER.

Lease and Well No. DELANEY #1 36 31 18W NE NW

Formation Test No. 1

36-31-18W



Tool Open: 1st Flow 5 hr. 5 mins: Shut-in Initial 30 hr. 30 min: 2nd Flow 1 hr.     min: Shut-in Final 30 hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2745</u>	<u>2791</u>
(B) Initial 1st Flow Pressure	<u>82</u>	<u>84</u>
(C) Final 1st Flow Pressure	<u>119</u>	<u>124</u>
(D) Initial Shut-in Pressure	<u>1839</u>	<u>1846</u>
(E) Initial 2nd Flow Pressure	<u>165</u>	<u>176</u>
(F) Final 2nd Flow Pressure	<u>622</u>	<u>613</u>
(G) Final Shut-in Pressure	<u>1834</u>	<u>1839</u>
(H) Final Hydrostatic Pressure	<u>2717</u>	<u>2736</u>

8424

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company ZENITH DRILLING CORPORATION

Lease and Well No. DELANEY #1

County COMANCHE State KANSAS Date JANUARY 28, 1967

Formation Test No. 5 Total Depth 5690 Elev. 2159 KB  
Interval Tested 5662 To 5690 Anchor Length 28'  
Size Hole 7 7/8 Size Drill Pipe 4 H90 & 4 1/2 XH Size Packer 6 3/4  
Mud Weight 9.5 Viscosity 44 Water Loss 12 c.c. Bottom Hole Temp. 120 °F  
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8168

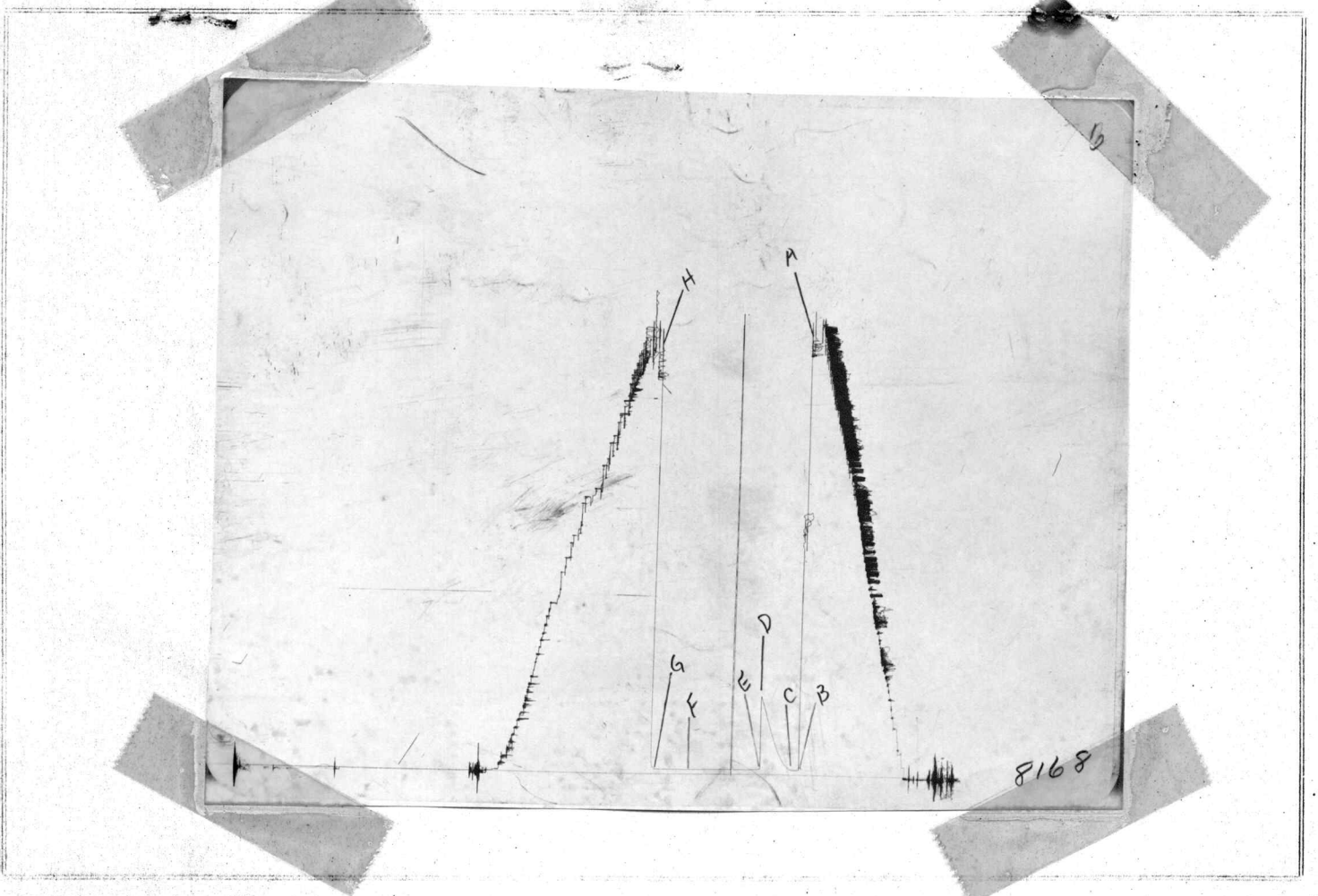
### RECOVERY

VERY WEAK FOR 5 MINUTES. NO BLOW ON SECOND OPENING. FLUSHED TOOL  
AFTER 25 MINUTES. NO BLOW.

40 FEET OF MUD.

Lease and Well No. DELANEY #1 36 31S 18W C NE MW

Formation Test No. 5



Tool Open: 1st Flow hr. 5 mins: Shut-in Initial hr. 30 min: 2nd Flow 1 hr. min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2747	2851
(B) Initial 1st Flow Pressure	34	31
(C) Final 1st Flow Pressure	34	31
(D) Initial Shut-in Pressure	502	509
(E) Initial 2nd Flow Pressure	34	31
(F) Final 2nd Flow Pressure	34	31
(G) Final Shut-in Pressure	34	34
(H) Final Hydrostatic Pressure	2805	2839

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company ZENITH DRILLING CORPORATION

Lease and Well No. DELANEY #1

County COMANCHE

State KANSAS

Date JANUARY 31, 1967

Formation Test No.	<u>6</u>	Total Depth	<u>585<math>\frac{1}{4}</math></u>	Elev.	<u>2159 KB</u>
Interval Tested	<u>58<math>\frac{1}{4}</math>0</u>	To	<u>585<math>\frac{1}{4}</math></u>	Anchor Length	<u>1<math>\frac{1}{4}</math></u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 H90 &amp; 4 1/2 XH</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.6</u>	Viscosity	<u>39</u>	Water Loss	<u>12</u> c.c.
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Bottom Hole Temp.	<u>125</u> °F
				Ticket No.	<u>8169</u>

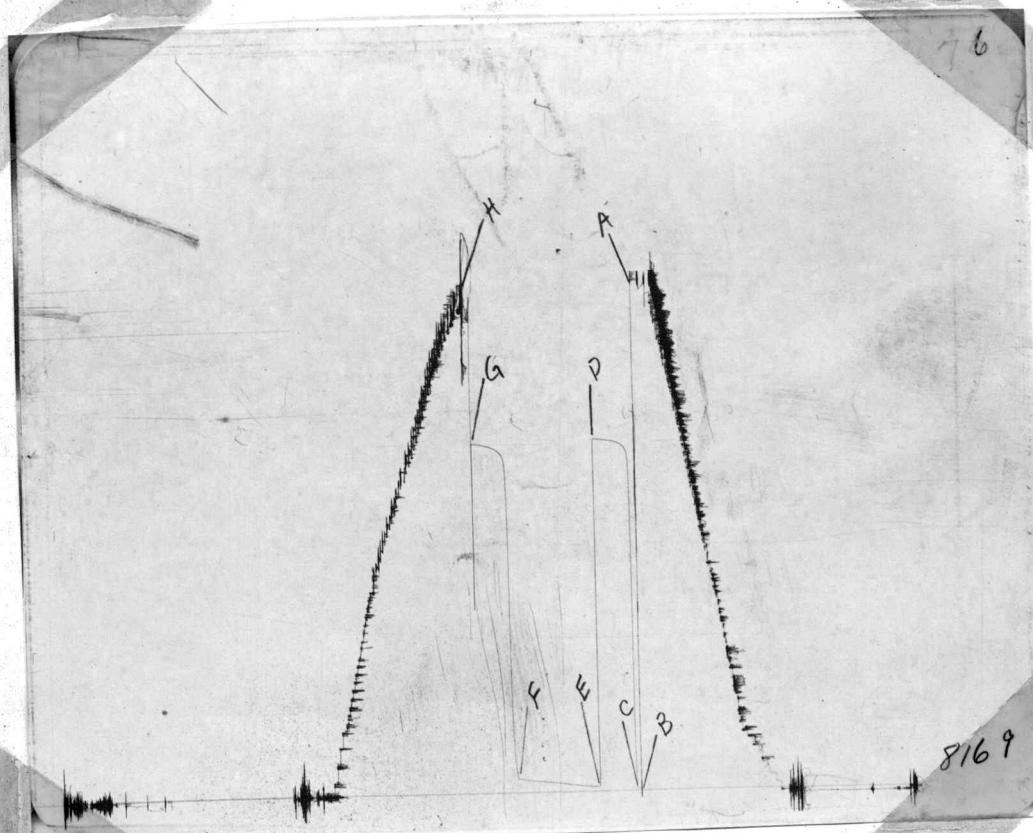
### RECOVERY

VERY WEAK BLOW THROUGHOUT TEST.

130 FEET OF WATER.

Lease and Well No. DELANEY #1 36 315 18M C NE NW

Formation Test No. 6



Tool Open: 1st Flow 5 hrs. 5 mins: Shut-in Initial 30 hr. 30 min: 2nd Flow 1 hr. 0 min: Shut-in Final 30 hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2897	2920
(B) Initial 1st Flow Pressure	11	9
(C) Final 1st Flow Pressure	22	11
(D) Initial Shut-in Pressure	2032	2034
(E) Initial 2nd Flow Pressure	34	27
(F) Final 2nd Flow Pressure	78	78
(G) Final Shut-in Pressure	2009	2018
(H) Final Hydrostatic Pressure	2897	2897

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company CITIES SERVICE OIL COMPANY

Lease and Well No. DELANEY #1

County COMMANCHE State KANSAS

Date FEBRUARY 1, 1967

Formation Test No. 7 Total Depth 6005 Elev. 2159 KB  
Interval Tested 5988 To 6005 Anchor Length 17'  
Size Hole 7 7/8 Size Drill Pipe 4 H90 & 4 1/2 XH Size Packer 6 3/4  
Mud Weight 9.6 Viscosity 63 Water Loss 10.8 c.c. Bottom Hole Temp. 130 °F  
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8171

### RECOVERY

WEAK AND INCREASED TO STRONG BLOW IN ONE HOUR.

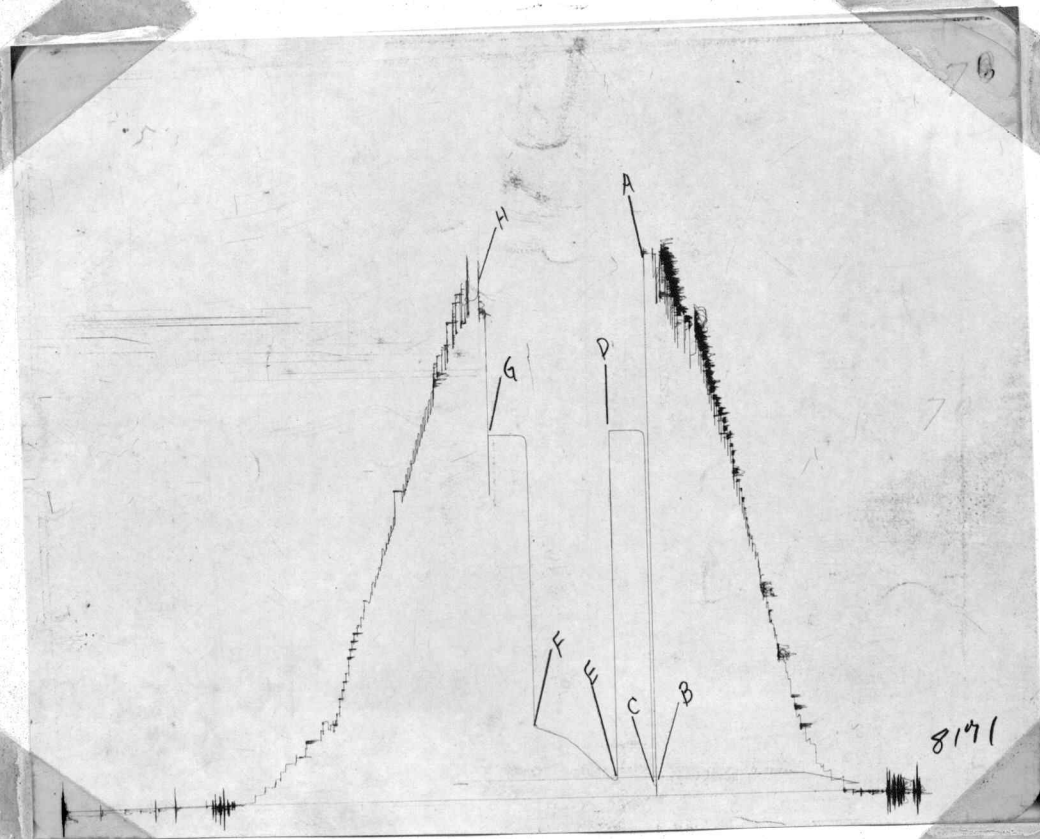
855 FEET OF WATER.

Lease and Well No. DELANEY #1 36 315 181 C NE W

Formation Test No. 7

7

36-315-181



Tool Open: 1st Flow hr. 5 mins: Shut-in Initial hr. 30 min: 2nd Flow 1 hr.      min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2920	3092
(B) Initial 1st Flow Pressure	56	56
(C) Final 1st Flow Pressure	56	67
(D) Initial Shut-in Pressure	2122	2131
(E) Initial 2nd Flow Pressure	90	99
(F) Final 2nd Flow Pressure	413	415
(G) Final Shut-in Pressure	2122	2122
(H) Final Hydrostatic Pressure	2920	3058

8171