20-25-2E

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Charles Carlock Lease & Well No. Penner #1

Elevation 1403 Kelly Bushings Formation Burgess Effective Pay Ft. Ticket No. 16958

Date 7-12-73 Sec. 20 Twp. 25S Range 2E County Sedgwick State Kansas

Test Approved by Walter H. Martz Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 2888' to 2919' Total Depth 2919'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. X Damaged Yes X No

Packer Depth 2883 Ft. Size 6 3/4" Packer Depth 2888 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 31 Ft. Size 4 1/2" O.D.

RECORDERS Depth 2911 Ft. Clock No. 8376 Depth 2914 Ft. Clock No. 9726

Top Make Kuster Cap 3000 No. 3474 Inside Outside Bottom Make Kuster Cap 4200 No. 3354 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 10:28 PM

Tool Open I.F.P. From 10:30 M. to 11:00P M. Hr. 30 Min. From (B) 43 P.S.I. To (C) 45 P.S.I.

Tool Closed I.C.I.P. From 11:00 M. to 11:30P M. Hr. 30 Min. (D) 659 P.S.I.

Tool Open F.F.P. From 11:30 M. to 12:00 M. Hr. 30 Min. From (E) 58 P.S.I. To (F) 55 P.S.I.

Tool Closed F.C.I.P. From 12:00 M. to 12:30A M. Hr. 30 Min. (G) 641 P.S.I.

Initial Hydrostatic Pressure (A) 1549 P.S.I. Final Hydrostatic Pressure (H) 1517 P.S.I.

SURFACE INFORMATION — Size Choke 3/4 In. | Max. Press. P.S.I. | Time | Description of Flow

M. M. M.

BLOW Weak blow 25 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 30 feet slightly oil cut mud

Reversed Out Yes X No Mud Type Chem. Viscosity 41 Weight 9.7 Water Loss 10 cc. Maximum Temp. 114 °F

Type Circ. Sub Pin Safety Joint No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 1998 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 840 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 30 ft.

I.D. Drill Collars 2 1/4 in. Length D.S.T. Tool 51 ft.

Remarks Fluid sample ground out 5% oil

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WESTERN TESTING CO., INC.

Pressure Data

Date 7-12-73 Test Ticket No. 16958

Recorder No. 3474 Capacity 3000 Location 2911 Ft.

Clock No. 8376 Elevation 1403 Kelly Bushings Well Temperature 114 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1549	P.S.I.
B	First Initial Flow Pressure	43	P.S.I.
C	First Final Flow Pressure	45	P.S.I.
D	Initial Closed-in Pressure	659	P.S.I.
E	Second Initial Flow Pressure	58	P.S.I.
F	Second Final Flow Pressure	55	P.S.I.
G	Final Closed-in Pressure	641	P.S.I.
H	Final Hydrostatic Mud	1517	P.S.I.

	Time Given	Time Computed
Open Tool	10:30 P.M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	31 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	30 Mins.	31 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	43
P 2 5	43
P 3 10	43
P 4 15	44
P 5 20	44
P 6 25	45
P 7 30	45
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 1 Min.

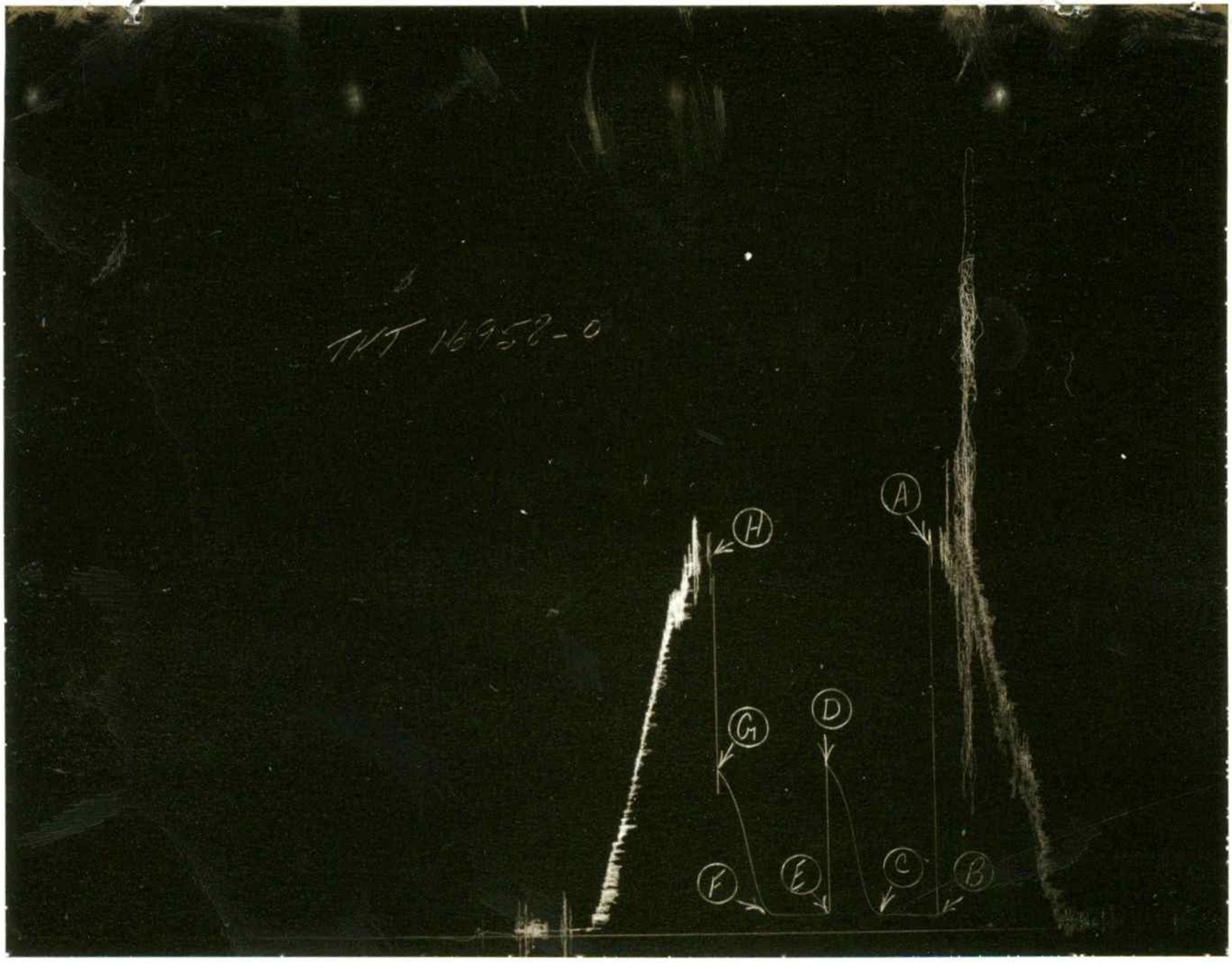
Point Minutes	Press.
0	45
3	56
6	84
9	141
12	235
15	329
18	426
21	495
24	556
27	603
30	642
31	659

Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	58
5	55
10	55
15	55
20	55
25	55
30	55

Final Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 1 Min.

Point Minutes	Press.
0	55
3	69
6	104
9	169
12	260
15	361
18	429
21	495
24	553
27	592
30	634
31	641


TVT 16958-0
A
H
G
D
F
E
C
B

20-25-2E

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Charles Carlock Lease & Well No. Penner #1

Elevation 1403 Kelly Bushings Formation Burgess Effective Pay Ft. Ticket No. 16959

Date 7-13-73 Sec. 20 Twp. 25S Range 2E County Sedgwick State Kansas

Test Approved by Walter H. Hartz Western Representative Norman Allen

Formation Test No. 2 O.K. X Misrun Interval Tested From 2888' to 2924' Total Depth 2924'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. X Damaged Yes X No

Packer Depth 2883 Ft. Size 6 3/4" Packer Depth 2888 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 36 Ft. Size 4 1/2" O.D.

RECORDERS Depth 2917 Ft. Clock No. 8376 Depth 2920 Ft. Clock No. 9726

Top Make Kuster Cap 3000 No. 3474 Inside Outside Bottom Make Kuster Cap 4200 No. 3354 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 9:43 A.M

Tool Open I.F.P. From 9:45 M. to 10:15A M. Hr. 30 Min. From (B) 58 P.S.I. To (C) 186 P.S.I.

Tool Closed I.C.I.P. From 10:15 M. to 10:45A M. Hr. 30 Min. (D) 780 P.S.I.

Tool Open F.F.P. From 10:45 M. to 11:15A M. Hr. 30 Min. From (E) 209 P.S.I. To (F) 316 P.S.I.

Tool Closed F.C.I.P. From 11:15 M. to 11:45A M. Hr. 30 Min. (G) 773 P.S.I.

Initial Hydrostatic Pressure (A) 1527 P.S.I. Final Hydrostatic Pressure (H) 1513 P.S.I.

SURFACE INFORMATION Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow

M.

M.

M.

BLOW Fair blow thru out test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 120 feet gas in pipe - 120 feet oil and gas cut mud
300 feet very slightly oil and gas cut mud 240 feet slightly muddy salt water

Reversed Out Yes No Mud Type Chem. Viscosity 41 Weight 9.7 Water Loss 10 cc. Maximum Temp. 114 °F

Type Circ. Sub. Pin Safety Joint No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 1998 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 840 ft. I.D. Weight Pipe 2.4 in. Length Drill Collars 30 ft.

I.D. Drill Collars 2 1/4 in. Length D.S.T. Tool 56 ft.

Remarks 120 feet oil and gas cut mud = ground out 20% oil
300 feet very slightly oil and gas cut mud - ground out 5% oil

20-25-2E

WESTERN TESTING CO., INC.
Pressure Data

Date 7-13-73 Test Ticket No. 16959

Recorder No. 3474 Capacity 3000 Location 2917 Ft.

Clock No. 8376 Elevation 1403 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1527 P.S.I.	Open Tool	9:45 A. M	
B First Initial Flow Pressure	58 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	186 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	780 P.S.I.	Second Flow Pressure	30 Mins.	32 Mins.
E Second Initial Flow Pressure	209 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	316 P.S.I.			
G Final Closed-in Pressure	773 P.S.I.			
H Final Hydrostatic Mud	1513 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	58
P 2 5	72
P 3 10	98
P 4 15	123
P 5 20	146
P 6 25	164
P 7 30	186
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In

Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	186
3	674
6	719
9	739
12	754
15	762
18	768
21	771
24	774
27	777
30	780

Second Flow Pressure

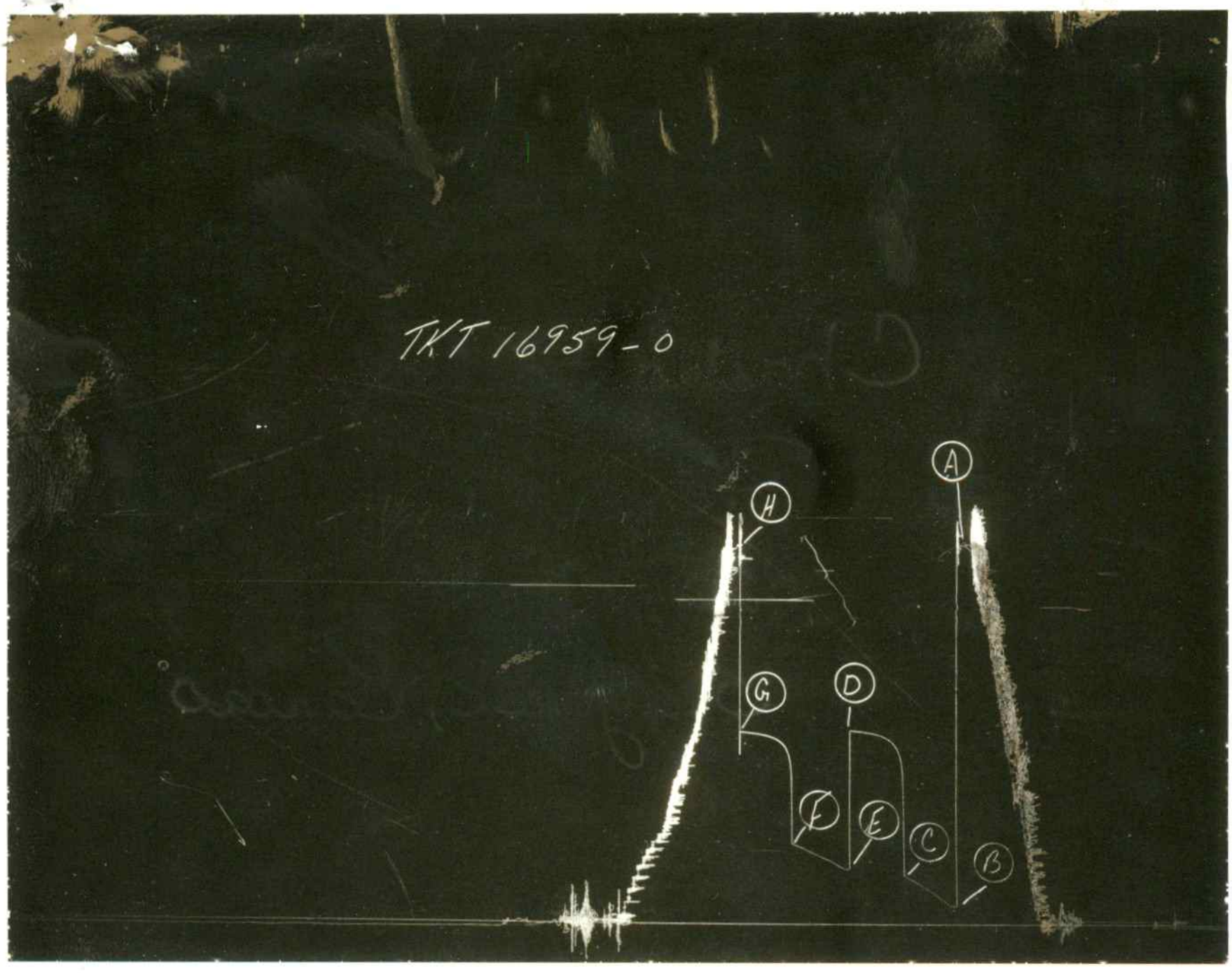
Breakdown: 6 Inc. of 5 mins. and a final inc. of 2 Min.

Point Minutes	Press.
0	209
5	215
10	238
15	256
20	276
25	292
30	302
32	316

Final Shut-In

Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	316
3	693
6	727
9	741
12	750
15	757
18	763
21	766
24	769
27	771
30	773


TKT 16959-0
A
H
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B