

15-127-20275



10-145-8E

Home Office: Wichita, Kansas 67201

Company Brandt Drilling Company, Inc. P. O. Box 1599 (316) 838-0601 Lease & Well No. Buchman #2

Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 124

Date 5/13/78 Sec 10 Twp 14S Range 8E County Morris State Kansas

Test Approved by Earl O. Brandt Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 1600 ft. to 1640' ft. Total Depth 1745' ft.

Packer Depth 1600 ft. Size 6 3/4 in. Packer Depth 1645 ft. Size 6 3/4 in.

Packer Depth == ft. Size == in. Packer Depth == ft. Size == in.

Depth of Selective Zone Set ==

Top Recorder Depth (Inside) 1627 ft. Recorder Number 1564 Cap 3150

Bottom Recorder Depth (Outside) 1630 ft. Recorder Number 3085 Cap 4200

Below Straddle Recorder Depth 1650 ft. Recorder Number 1561 Cap 3200

Drilling Contractor Brandt Drilling Co. Drill Collar Length 293 I. D. 2 1/2 in.

Mud Type chemical Viscosity 43 Weight Pipe Length -- I. D. -- in.

Weight 10 Water Loss 12.8 cc. Drill Pipe Length 1292 I. D. 2.7 in.

Chlorides 1,500 P.P.M. Test Tool Size 4 1/2 OD in. Tool Joint Size 3 1/2 IH in.

Jars: Make ----- Serial Number ----- Anchor Length 40 ft. Size 4 1/2 OD in.

Did Well Flow? No Reversed Out ----- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Weak blow 10 minutes. Flushed tool once on final flow period.

Recovered 5 ft. of drilling mud

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Remarks: Pressures from recorder #3085 TIGHT HOLE

Time Set Packer(s) 1:58 ---A.M. P.M. Time Started Off Bottom 4:00 ---A.M. P.M. Maximum Temperature 88

Initial Hydrostatic Pressure ..... (A) 814 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 46 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 161 P.S.I.

Final Flow Period ..... Minutes 30 (E) 60 P.S.I. to (F) 27 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 217 P.S.I.

Final Hydrostatic Pressure ..... (H) 802 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/13/78

Test Ticket No. 124

Recorder No. 3085

Capacity 4200

Location 1627

Clock No. -----

Elevation -----

Well Temperature 88

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	814 P.S.I.	Open Tool	1:58P M	
B First Initial Flow Pressure	46 P.S.I.	First Flow Pressure	30 Mins	30 Mins
C First Final Flow Pressure	26 P.S.I.	Initial Closed-in Pressure	30 Mins	27 Mins
D Initial Closed-in Pressure	161 P.S.I.	Second Flow Pressure	30 Mins	30 Mins
E Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	30 Mins	27 Mins
F Second Final Flow Pressure	27 P.S.I.			
G Final Closed-in Pressure	217 P.S.I.			
H Final Hydrostatic Mud	802 P.S.I.			

PRESSURE BREAKDOWN

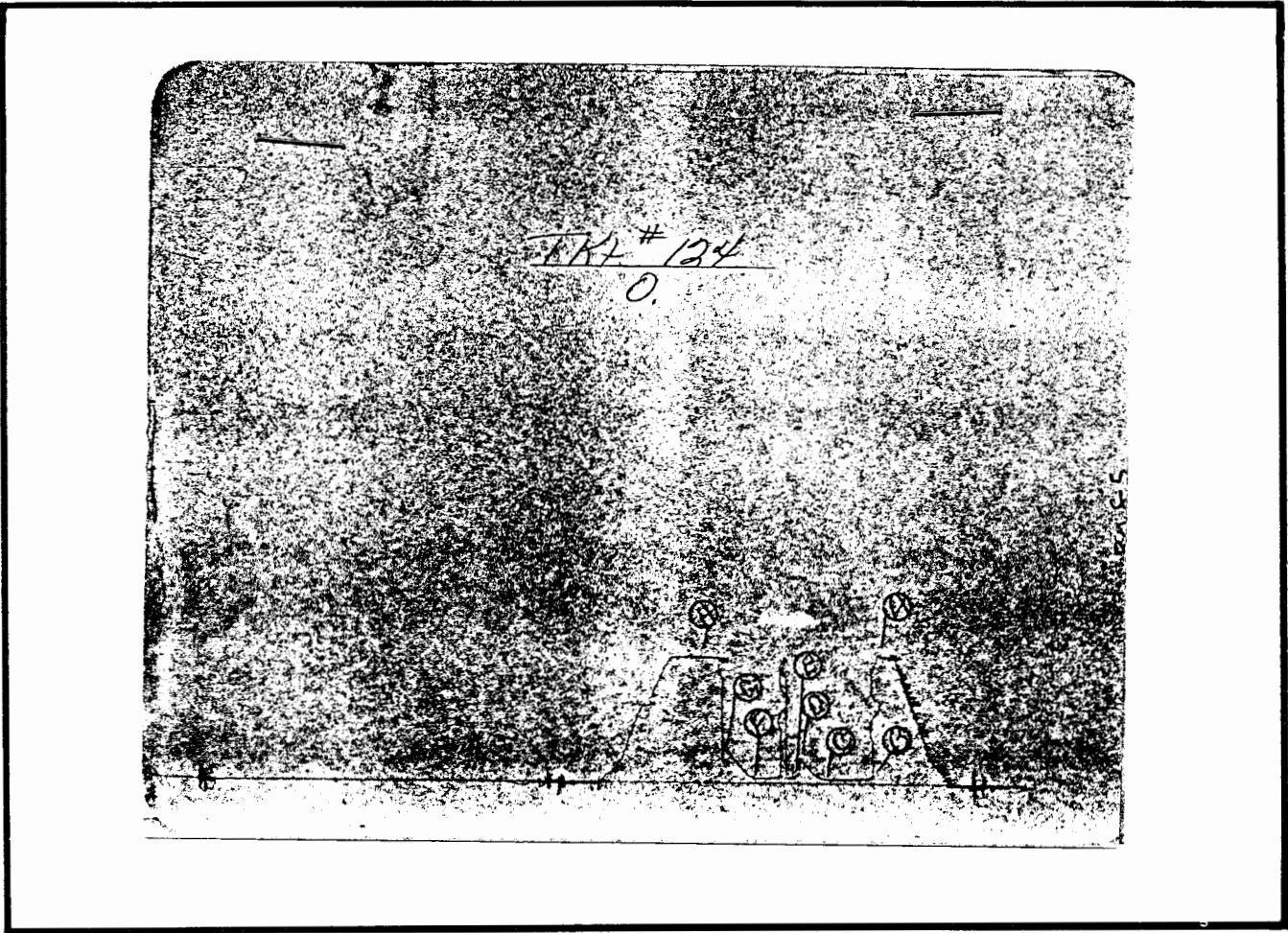
First Flow Pressure  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

Initial Shut-In  
Breakdown: 9 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

Final Shut-In  
Breakdown: 9 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	46	0	26	0	60	0	27
P 2	31	3	26	5	39	3	33
P 3	29	6	29	10	flushed tool	6	45
P 4	27	9	33	15	41	9	76
P 5	26	12	48	20	32	12	105
P 6	26	15	72	25	29	15	137
P 7	26	18	96	30	27	18	163
P 8		21	122			21	187
P 9		24	153			24	208
P10		27	161			27	217
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	805	814	PSI
(B) First Initial Flow Pressure .....	35	46	PSI
(C) First Final Flow Pressure .....	25	26	PSI
(D) Initial Closed-in Pressure .....	170	161	PSI
(E) Second Initial Flow Pressure .....	35	60	PSI
(F) Second Final Flow Pressure .....	25	27	PSI
(G) Final Closed-in Pressure .....	215	217	PSI
(H) Final Hydrostatic Mud .....	805	802	PSI



Home Office: Wichita, Kansas 67201

Company Brandt Drilling Company, Inc. P. O. Box 1599 (316) 838-0601 Lease & Well No. Buchman # 2

Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 126  
Date 5/15/78 Sec. 10 Twp. 14S Range 8E County Morris State Kansas

Test Approved by Earl O. Brandt Western Representative Norman Allen

Formation Test No. 3 Interval Tested from 1924' ft. to 1939' ft. Total Depth 1939' ft.  
Packer Depth 1924 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.  
Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1932 ft. Recorder Number 3085 Cap. 4200  
Bottom Recorder Depth (Outside) 1935 ft. Recorder Number 1561 Cap. 3200  
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Brandt Drilling Co. Drill Collar Length 293 I. D. 2 1/2 in.  
Mud Type chemical Viscosity 56 Weight Pipe Length -- I. D. -- in.  
Weight 9.6 Water Loss cc. Drill Pipe Length 1616 I. D. 2.7 in.  
Chlorides 2,200 P.P.M. Test Tool Size 4 1/2 OD in. Tool Joint Size 3 1/2 IF in.  
Jars: Make --- Serial Number ---- Anchor Length 15 ft. Size 4 1/2 OD in.  
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
Main Hole Size 7 7/8 in.

Blow: Fair throughout test.

Recovered 360 ft. of slightly muddy sulphur cut salt water  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks: TIGHT HOLE

Time Set Packer(s) 5:57 ~~AM~~ P.M. Time Started Off Bottom 8:00 ~~AM~~ P.M. Maximum Temperature 93  
Initial Hydrostatic Pressure ..... (A) 1013 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 55 P.S.I. to (C) 76 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 612 P.S.I.  
Final Flow Period ..... Minutes 30 (E) 136 P.S.I. to (F) 141 P.S.I.  
Final Closed In Period ..... Minutes 30 (G) 607 P.S.I.  
Final Hydrostatic Pressure ..... (H) 979 P.S.I.

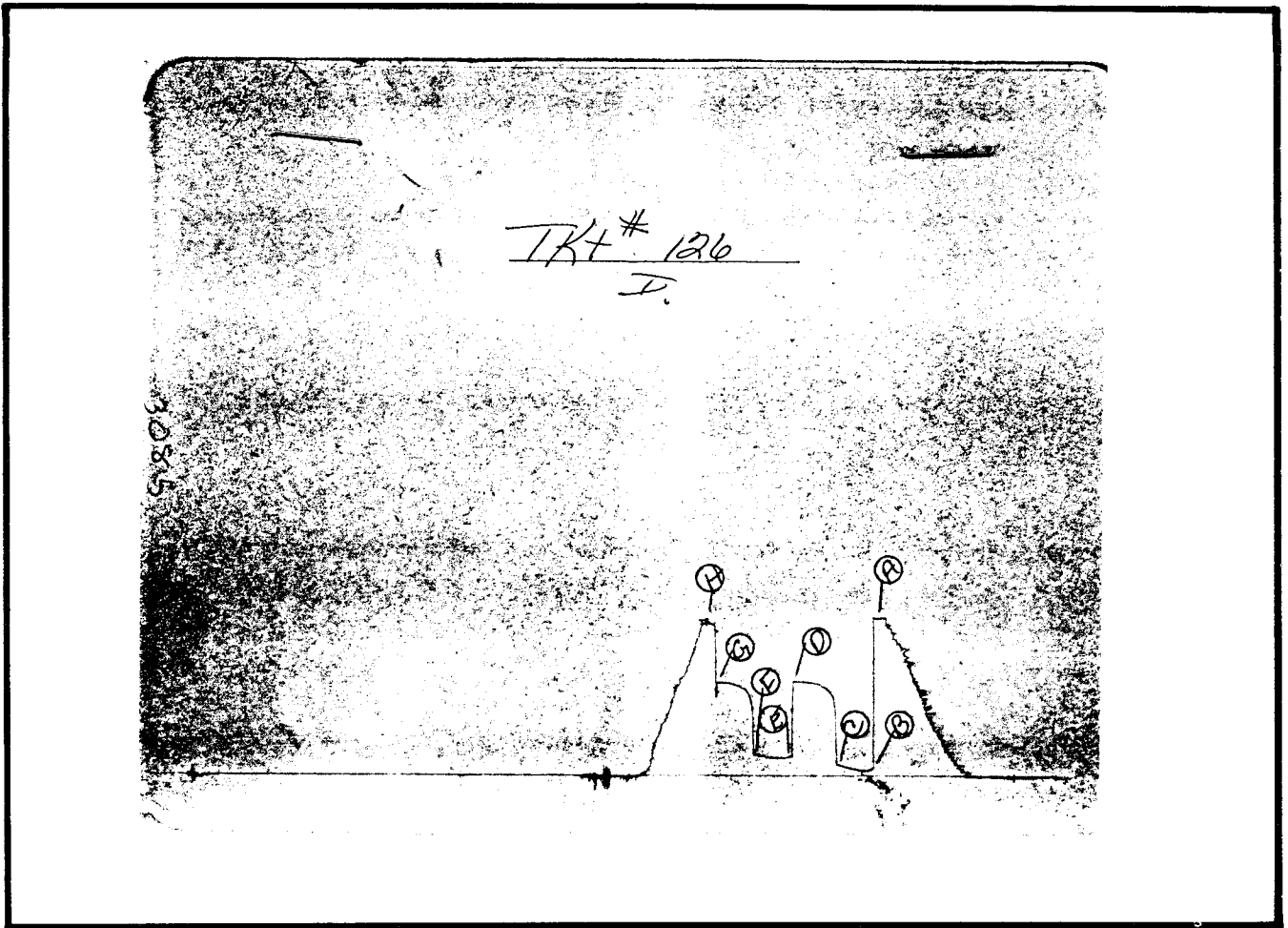
**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 5/15/78 Test Ticket No. 126  
 Recorder No. 3085 Capacity 4200 Location 1932 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 93 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1013	P.S.I.	5:57P	M
B. First Initial Flow Pressure	55	P.S.I.	30	Mins. 30
C. First Final Flow Pressure	76	P.S.I.	30	Mins. 33
D. Initial Closed-in Pressure	612	P.S.I.	30	Mins. 30
E. Second Initial Flow Pressure	136	P.S.I.	30	Mins. 30
F. Second Final Flow Pressure	141	P.S.I.		
G. Final Closed-in Pressure	607	P.S.I.		
H. Final Hydrostatic Mud	979	P.S.I.		

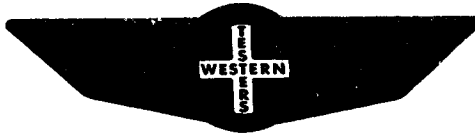
**PRESSURE BREAKDOWN**

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	55	0	76	0	141		
P 2	5	36	3	483	5	117	3	514
P 3	10	36	6	537	10	116	6	558
P 4	15	44	9	567	15	118	9	573
P 5	20	55	12	581	20	128	12	584
P 6	25	72	15	595	25	135	15	593
P 7	30	76	18	602	30	141	18	598
P 8			21	604			21	602
P 9			24	607			24	604
P10			27	609			27	607
P11			30	611			30	607
P12			33	612				
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1000	1013	PSI
(B) First Initial Flow Pressure .....	35	55	PSI
(C) First Final Flow Pressure .....	70	76	PSI
(D) Initial Closed-in Pressure .....	605	612	PSI
(E) Second Initial Flow Pressure .....	120	136	PSI
(F) Second Final Flow Pressure .....	145	141	PSI
(G) Final Closed-in Pressure .....	605	607	PSI
(H) Final Hydrostatic Mud .....	990	979	PSI



Home Office: Wichita, Kansas 67201

Company Brandt Drilling Company, Inc. P. O. Box 1599 (316) 838-0601 Lease & Well No. Buchman #2

Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 127

Date 5/16/78 Sec. 10 Twp 14S Range 8E County Morris State Kansas

Test Approved by Clyde Martin Western Representative Norman Allen

Formation Test No. 4 Interval Tested from 2049 ft. to 2055 ft. Total Depth 2055' ft.

Packer Depth 2049 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 2042 AP ft. Recorder Number 3085 Cap. 4200

Bottom Recorder Depth (Outside) 2052 ft. Recorder Number 1561 Cap. 3200

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Brandt Drilling Co. Drill Collar Length 293 I. D. 2 1/2 in.

Mud Type chemical Viscosity 46 Weight Pipe Length -- I. D. -- in.

Weight 10.1 Water Loss 12.8 cc. Drill Pipe Length 1738 I. D. 2.7 in.

Chlorides 1,600 P.P.M. Test Tool Size 4 1/2 OD in. Tool Joint Size 3 1/2 IF in.

Jars: Make ----- Serial Number ----- Anchor Length 6 ft. Size 4 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Strong diminishing to weak at end of thirty minutes.

Recovered 1530 ft. of salt water 10,000 PPM chlorides

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Remarks: -----

Time Set Packer(s) 1:58 ~~A.M.~~ P.M. Time Started Off Bottom 4:00 ~~A.M.~~ P.M. Maximum Temperature 98

Initial Hydrostatic Pressure ----- (A) 1058 P.S.I.

Initial Flow Period ----- Minutes 30 (B) 151 P.S.I. to (C) 666 P.S.I.

Initial Closed In Period ----- Minutes 30 (D) 670 P.S.I.

Final Flow Period ----- Minutes 30 (E) 672 P.S.I. to (F) 674 P.S.I.

Final Closed In Period ----- Minutes 30 (G) 674 P.S.I.

Final Hydrostatic Pressure ----- (H) 1058 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 5/16/78

Test Ticket No. 127

Recorder No. 3085 Capacity 4200

Location 2042 Ft.

Clock No. ----- Elevation -----

Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1058 P.S.I.	Open Tool	1:58P M	
B First Initial Flow Pressure	151 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	666 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	670 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	672 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	674 P.S.I.			
G Final Closed-in Pressure	674 P.S.I.			
H Final Hydrostatic Mud	1058 P.S.I.			

**PRESSURE BREAKDOWN**

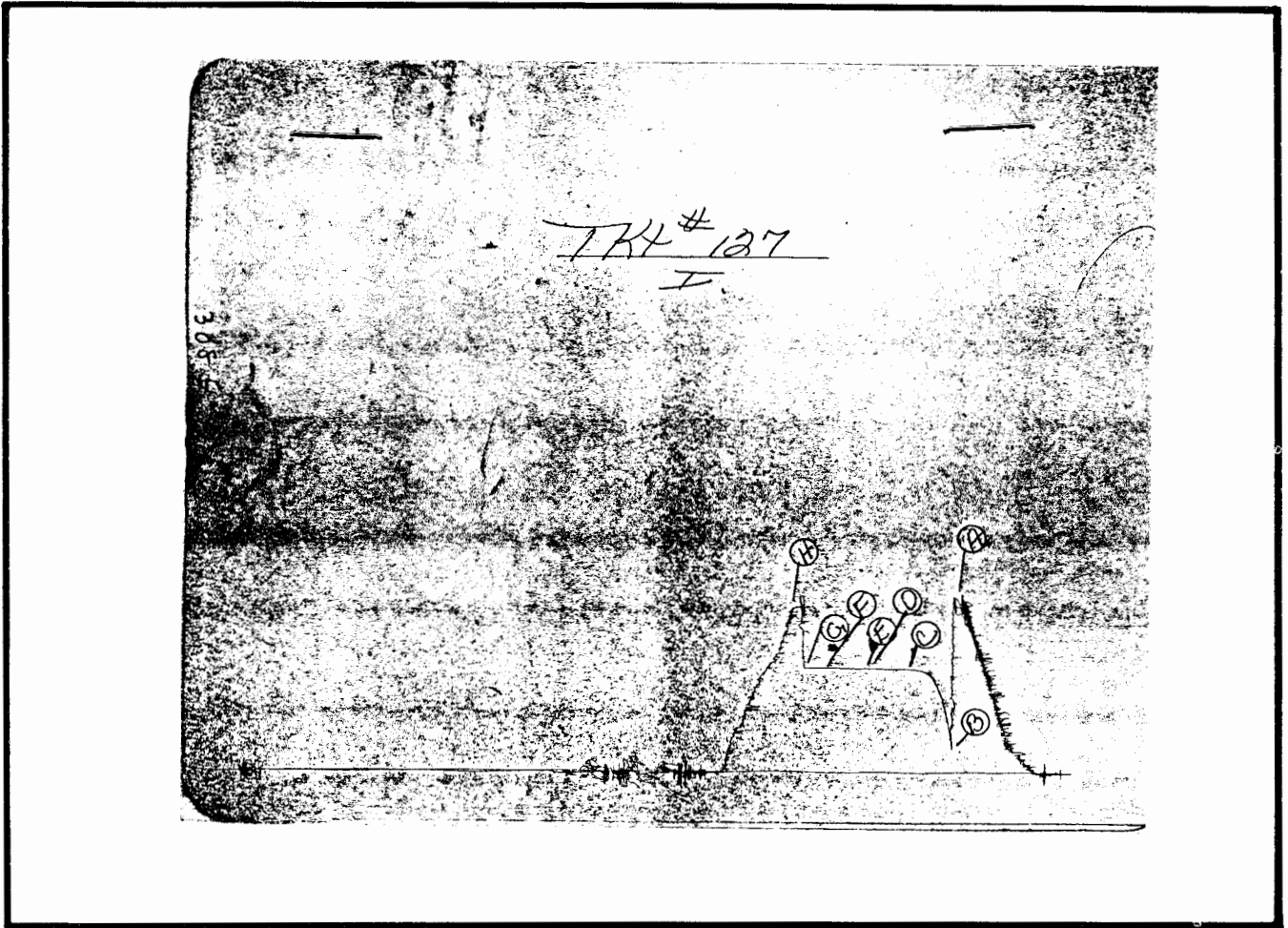
**First Flow Pressure**  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

**Final Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	151	0	666	0	672	0	674
P 2	394	3	666	5	672	3	674
P 3	521	6	667	10	672	6	674
P 4	607	9	667	15	673	9	674
P 5	647	12	667	20	674	12	674
P 6	660	15	667	25	674	15	674
P 7	666	18	668	30	674	18	674
P 8		21	669			21	674
P 9		24	669			24	674
P10		27	670			27	674
P11		30	670			30	674
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1060	1058	PSI
(B) First Initial Flow Pressure .....	151	151	PSI
(C) First Final Flow Pressure .....	665	555	PSI
(D) Initial Closed-in Pressure .....	665	570	PSI
(E) Second Initial Flow Pressure .....	665	572	PSI
(F) Second Final Flow Pressure .....	665	574	PSI
(G) Final Closed-in Pressure .....	665	574	PSI
(H) Final Hydrostatic Mud .....	1060	1058	PSI