15-159-35174

20-18s-6w

WESTERN

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Kenneth Rupp Lease & Well No. Herrick #1

Elevation 1678' Ticket Number 4345

Date 12-28-63 Sec. 20 Twp. 18 Range 6 County Rice State

Test Approved by Paul O. Koontz Western Representative James K. Carter

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Formation Test No. 1 O.K. X Misrun ____ Interval Tested From 3087' to 3167' Total Depth 3167'

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

Packer Depth 3087 Ft. Size 6 3/4" Packer Depth ____ Ft. Size ____

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

Packer Depth ____ Ft Size ____

Tool Size 5" Tool Jt. Size 3½" IF Anchor Length 80 Ft. Size 4½"

RECORDERS Depth 3155 Ft Clock No. 6897 Depth 3158 Ft. Clock No. 110

Top Make Amerada Cap. 6150# No. 969 Inside ~~Outside~~ Bottom Make Western Cap. 3000# No. 24 ~~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

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Time Set Packer 6:55 P M

Tool Open I.F.P. From 7:00P M to 7:05P M - Hr. 5 Min. From (B) 47 P.S.I. To (C) 47 P.S.I.

Tool Closed I.C.I.P. From 7:05P M. to 7:35P M. - Hr. 30 Min. (D) 1161 P.S.I.

Tool Open F.F.P. From 7:35P M. to 8:35P M. 1 Hr. - Min. From (E) 50 P.S.I. To (F) 85 P.S.I.

Tool Closed F.C.I.P. From 8:35P M. to 9:05P M. - Hr. 30 Min. (G) 633 P.S.I.

Inital Hydrostatic Pressure (A) 1650 P.S.I. Final Hydrostatic Pressure (H) 1621 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Very weak for 12 mins. - dead rest of test Bottom Choke Size 3/4 in.

Did Well Flow ____ Yes X No Recovery Total Ft. 120' Mud

Mud

Reversed Out ____ Yes X No Mud Type Starch Viscosity 34 Weight 9.8 Maximum Temp. 94 °F

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Jars: Size No Make ____ Ser. No. ____

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 1879 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 917 ft. I.D. Weight Pipe 2.6 in. Length Drill Collars 275 ft.

I. D. Drill Collars 2.35 in. Length D. S. T. Tool 96 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 12-28-63 Test Ticket No. 4345

Recorder No. 969 Capacity 6150# Location 3155 Ft.

Clock No. 6897 Elevation 1678 ± Well Temperature 94 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1650 P.S.I.		Opened Tool	6:55 P M	6:55 PM
B	First Initial Flow Pressure	47 P.S.I.		First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	47 P.S.I.		Initial Closed-in Pressure	30 Mins.	29 Mins.
D	Initial Closed-in Pressure	1161 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	50 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	85 P.S.I.				
G	Final Closed-in Pressure	633 P.S.I.				
H	Final Hydrostatic Mud	1621 P.S.I.				

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of - Min.

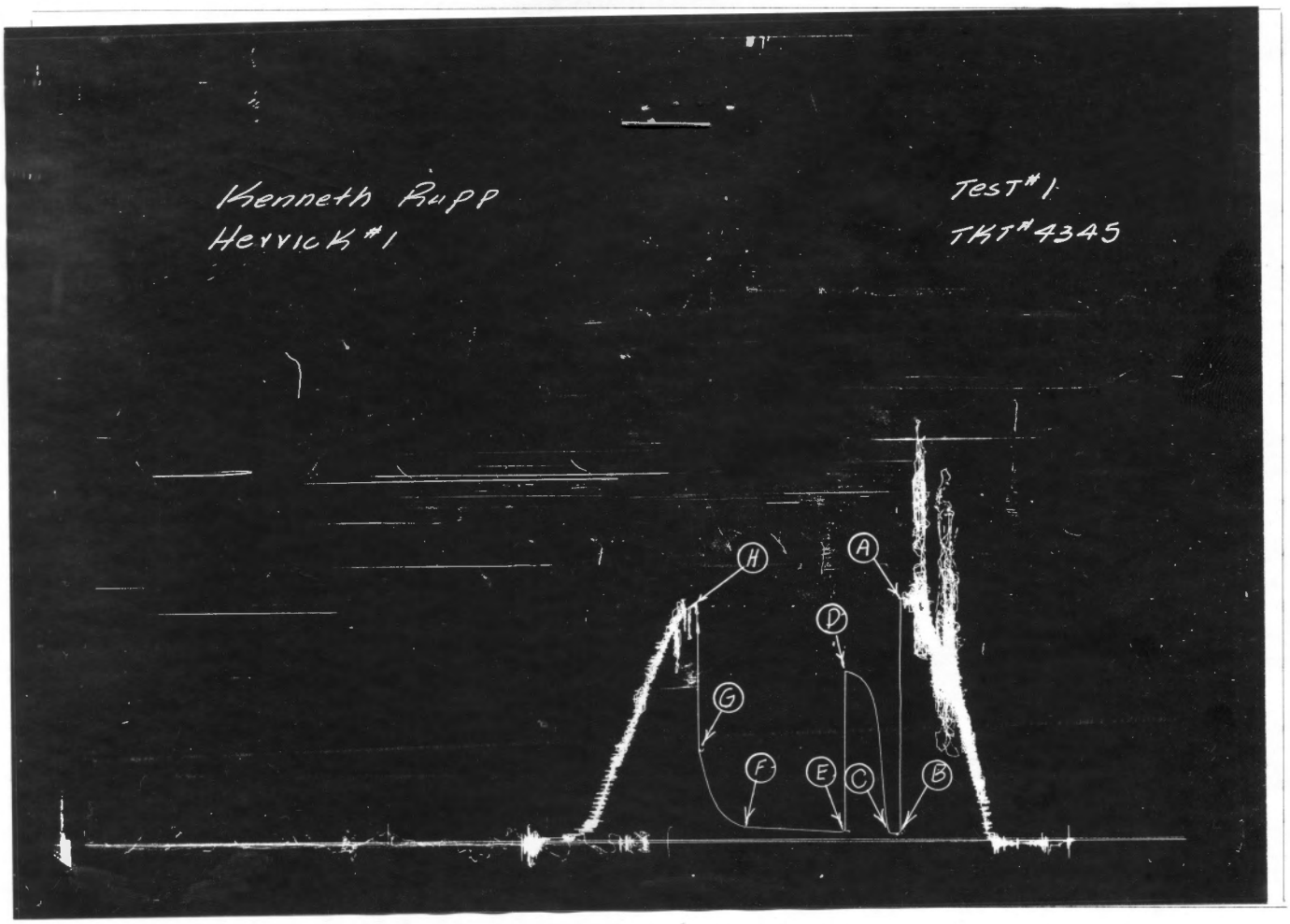
Initial Shut-In
Breakdown: 9 Inc.
of 13 mins. and a
final inc. of 1 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of - Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	47	0	47	0	50	0	85
P 2 5	47	3	270	5	51	3	94
P 3		6	642	10	53	6	107
P 4		9	886	15	56	9	122
P 5		12	1003	20	59	12	148
P 6		15	1065	25	63	15	179
P 7		18	1111	30	66	18	217
P 8		21	1130	35	69	21	280
P 9		24	1146	40	73	24	371
P10		27	1155	45	76	27	481
P11		29	1161	50	79	30	633
P12				55	81		
P13				60	85		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1650	PSI
(B)	First Initial Flow Pressure	47	PSI
(C)	First Final Flow Pressure	47	PSI
(D)	Initial Closed-in Pressure	1161	PSI
(E)	Second Initial Flow Pressure	50	PSI
(F)	Second Final Flow Pressure	85	PSI
(G)	Final Closed-in Pressure	633	PSI
(H)	Final Hydrostatic Mud	1621	PSI

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Kenneth Rupp Lease & Well No. Herrick #1

Elevation 1678' Ticket Number 3983

Date 12-29-63 Sec. 20 Twp. 18 Range 6 County Rice State Kansas

Test Approved by Paul O. Koontz Western Representative James K. Carter

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Formation Test No. 2 O.K. X Misrun ____ Interval Tested From 3250' to 3258' Total Depth 3258'

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

Packer Depth 3245 Ft. Size 6 3/4" Packer Depth 3250 Ft. Size 6 3/4"

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

Packer Depth ____ Ft Size ____

Tool Size 5½" Tool Jt. Size 4½" FH Anchor Length 8 Ft. Size 5½"

RECORDERS Depth 3253' Ft Clock No. 4964 Depth 3256 Ft. Clock No. 140

Top Make Amerada Cap. 3150# No. 1563 Inside ~~Outside~~ Bottom Make Western Cap. 3000# No. 58 ~~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

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Time Set Packer 11:05A M

Tool Open I.F.P. From 11:10A M to 11:15A M - Hr. 5 Min. From (B) 99 P.S.I. To (C) 118 P.S.I.

Tool Closed I.C.I.P. From 11:15A M. to 11:45A M. - Hr. 30 Min. (D) 1017 P.S.I.

Tool Open F.F.P. From 11:45A M. to 1:45P M. 2 Hr. - Min. From (E) 122 P.S.I. To (F) 390 P.S.I.

Tool Closed F.C.I.P. From 1:45P M. to 2:15P M. - Hr. 30 Min. (G) 843 P.S.I.

Inital Hydrostatic Pressure (A) 1734 P.S.I. Final Hydrostatic Pressure (H) 1722 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Fair to good throughout test Bottom Choke Size 3/4 in.

Did Well Flow ____ Yes X No Recovery Total Ft. 180' Gas - 1000' Gassy Oil with 5 gallons filtrate water

Mud

Reversed Out X Yes ____ No Mud Type Starch Viscosity 38 Weight 9.8 Maximum Temp. 111 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make ____ Ser. No. ____

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 2030 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 947 ft. I.D. Weight Pipe 2.3 in. Length Drill Collars 255 ft.

I. D. Drill Collars 2.4 in. Length D. S. T. Tool 26 ft.

Remarks

TIGHT HOLE

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 12-29-63 Test Ticket No. 3983

Recorder No. 1563 Capacity 3150# Location 3253 Ft.

Clock No. 1678 Elevation 1678 Well Temperature 111 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1734	P.S.I.
B	First Initial Flow Pressure	99	P.S.I.
C	First Final Flow Pressure	118	P.S.I.
D	Initial Closed-in Pressure	1017	P.S.I.
E	Second Initial Flow Pressure	~~XXX~~ 122	P.S.I.
F	Second Final Flow Pressure	390	P.S.I.
G	Final Closed-in Pressure	843	P.S.I.
H	Final Hydrostatic Mud	1722	P.S.I.

	Time Given		Time Computed	
Opened Tool	11:05A	M	11:05 AM	
First Flow Pressure	5	Mins.	5	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	120	Mins.	118	Mins.
Final Closed-in Pressure	30	Mins.	28	Mins.

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc. of 5 mins. and a final inc. of - Min.

Point Mins.	Press.
P 1 0	99
P 2 5	118
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

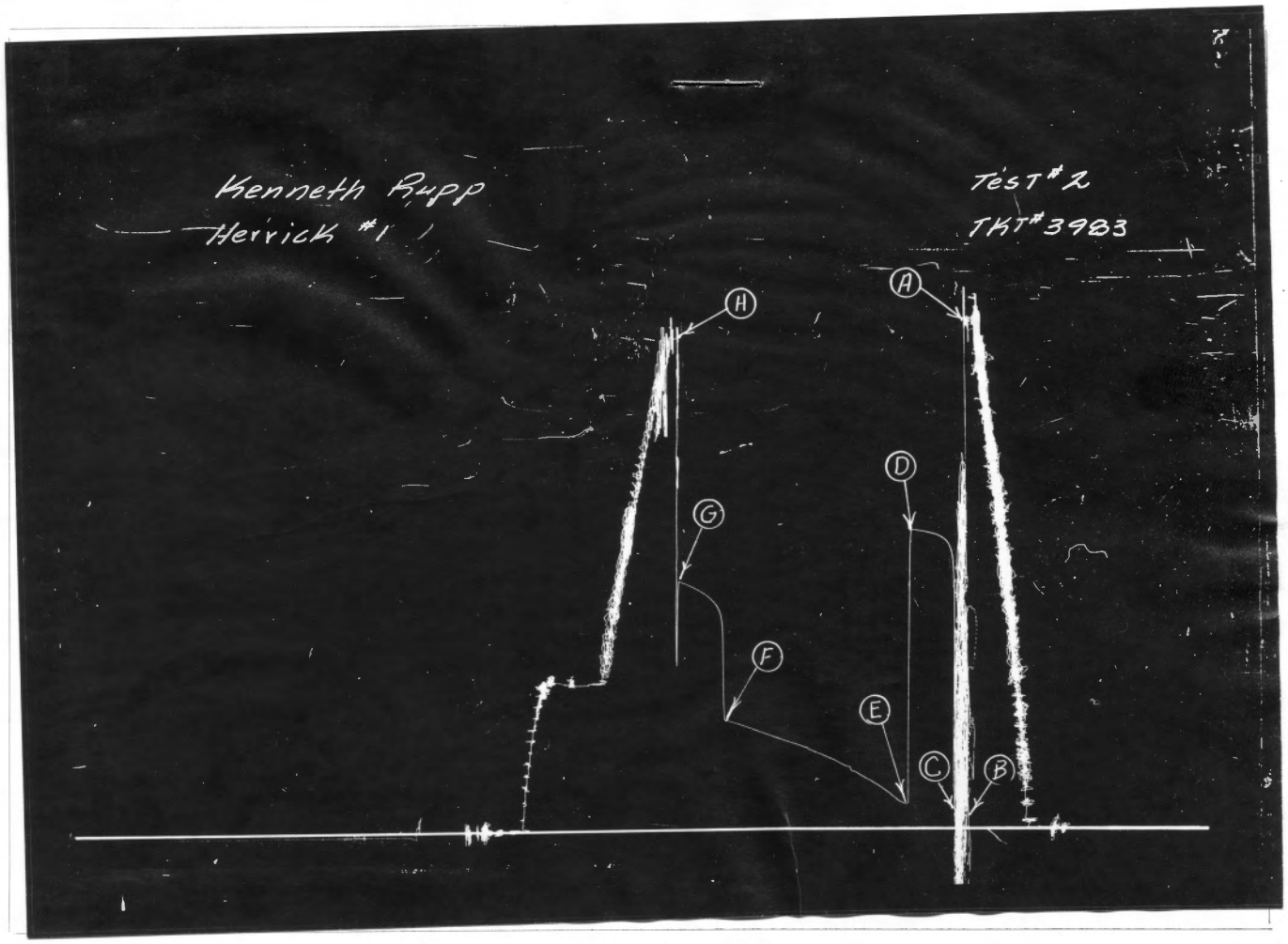
Point Minutes	Press.
0	118
3	840
6	959
9	982
12	992
15	998
18	1003
21	1007
24	1011
27	1014
30	1017

Second Flow Pressure
Breakdown: 23 Inc. of 5 mins. and a final inc. of 3 Min.

Point Minutes	Press.
0	122
5	125
10	131
15	140
20	147
25	159
30	178
35	191
40	209
45	223
50	237
55	248
60	259
65	273
70	283
75	292
80	300
85	311
90	320
95	329
100	342
105	351
110	361
115	376
118	390

Final Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 1 Min.

Point Minutes	Press.
0	390
3	737
6	769
9	787
12	799
15	812
18	819
21	827
24	835
27	840
28	843



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1734	PSI
(B)	First Initial Flow Pressure	99	PSI
(C)	First Final Flow Pressure	118	PSI
(D)	Initial Closed-in Pressure	1017	PSI
(E)	Second Initial Flow Pressure	122	PSI
(F)	Second Final Flow Pressure	390	PSI
(G)	Final Closed-in Pressure	843	PSI
(H)	Final Hydrostatic Mud	1722	PSI

WESTERN

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Kenneth Rupp Lease & Well No. Herrick #1

Elevation 1678' Ticket Number 3984

Date 12-30-63 Sec. 20 Twp. 18 Range 6 County Rice State Kansas

Test Approved by Paul O. Koontz Western Representative James K. Carter

Formation Test No. 3 O.K. X Misrun ____ Interval Tested From 3258' to 3268' Total Depth 3268'

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

Packer Depth 3253 Ft. Size 6 3/4" Packer Depth 3258 Ft. Size 6 3/4"

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

Packer Depth ____ Ft Size ____

Tool Size 5½" Tool Jt. Size 4½" FH Anchor Length 10 Ft. Size 5½"

RECORDERS Depth 3263 Ft Clock No. 4964 Depth 3266 Ft. Clock No. 140

Top Make Amerada Cap. 3150# No. 1563 Inside ~~Outside~~ Bottom Make Western Cap. 3000# No. 58 ~~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 12:15 A M

Tool Open I.F.P. From 12:20A M to 12:25A M - Hr. 5 Min. From (B) 64= P.S.I. To (C) 83 P.S.I.

Tool Closed I.C.I.P. From 12:25A M. to 12:55A M. - Hr. 30 Min. (D) 1000 P.S.I.

Tool Open F.F.P. From 12:55A M. to 1:55A M. 1 Hr. - Min. From (E) 101 P.S.I. To (F) 261 P.S.I.

Tool Closed F.C.I.P. From 1:55A M. to 2:25A M. - Hr. 30 Min. (G) 907 P.S.I.

Inital Hydrostatic Pressure (A) 1682 P.S.I. Final Hydrostatic Pressure (H) 1672 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Good throughout test Bottom Choke Size 3/4 in.

Did Well Flow ____ Yes X No Recovery Total Ft. 120' Gas, 610' Fluid - 500' Slightly Muddy Gassy Oil - 110' Formation water Mud

Reversed Out X Yes ____ No Mud Type Starch Viscosity 38 Weight 9.8 Maximum Temp. 103 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make ____ Ser. No. ____

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 2038 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 947 ft. I.D. Weight Pipe 2.3 in. Length Drill Collars 255 ft.

I. D. Drill Collars 2.4 in. Length D. S. T. Tool 28 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 12-30-63 Test Ticket No. 3984

Recorder No. 1563 Capacity 3150# Location 3263 Ft.

Clock No. 4964 Elevation 1678 Well Temperature 103 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1682 P.S.I.		Opened Tool	12:15 A M	12:15 AM
B	First Initial Flow Pressure	64 P.S.I.		First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	83 P.S.I.		Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	1000 P.S.I.		Second Flow Pressure	60 Mins.	55 Mins.
E	Second Initial Flow Pressure	101 P.S.I.		Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	261 P.S.I.				
G	Final Closed-in Pressure	907 P.S.I.				
H	Final Hydrostatic Mud	1672 P.S.I.				

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of - Min.

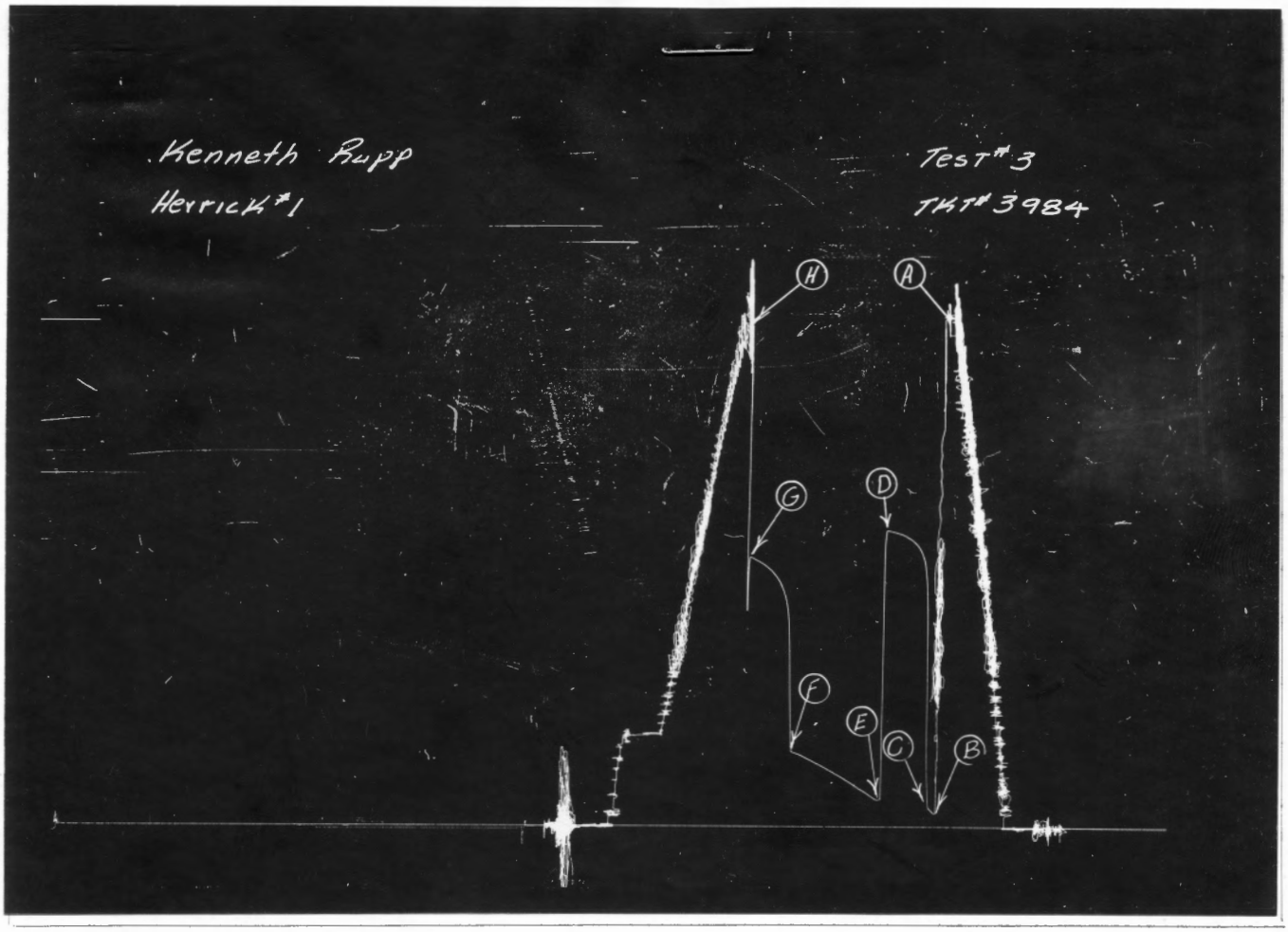
Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of - Min.

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of - Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	64	0	83	0	101	0	261
P 2 5	83	3	805	5	109	3	744
P 3		6	921	10	124	6	804
P 4		9	948	15	141	9	835
P 5		12	963	20	159	12	857
P 6		15	974	25	177	15	872
P 7		18	984	30	191	18	883
P 8		21	990	35	207	21	893
P 9		24	996	40	222	24	902
P10		27	1000	45	237	27	907
P11				50	849		
P12				55	261		
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1682	PSI
(B)	First Initial Flow Pressure	64	PSI
(C)	First Final Flow Pressure	83	PSI
(D)	Initial Closed-in Pressure	1000	PSI
(E)	Second Initial Flow Pressure	101	PSI
(F)	Second Final Flow Pressure	261	PSI
(G)	Final Closed-in Pressure	907	PSI
(H)	Final Hydrostatic Mud	1672	PSI