15-135-20123

22-19s-25w

WESTERN

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

Company O. A. Sutton Lease & Well No. Fitzgerald # 1

Elevation 2497 Kelly Bushing Formation Fort Scott Effective Pay Ft. Ticket No. 10465

Date 3-8-68 Sec. 22 Twp. 19s Range 25w County Ness State Kansas

Test Approved by Bill C. Romig Western Representative Dean Blagrave

Formation Test No. 1 O.K. X Misrun Interval Tested From 4434' to 4471' Total Depth 4471'

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 4429 Ft. Size 6 3/4 Packer Depth 4434 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 34 Ft. Size 5½"OD

RECORDERS Depth 4462 Ft. Clock No. 8475 Depth 4465 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 ~~Inside~~ ~~Outside~~ Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 ~~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 4:48 A. M

Tool Open I.F.P. From 4:50 M. to 5:00 A M. Hr. 10 Min. From (B) 56 P.S.I. To (C) 57 P.S.I.

Tool Closed I.C.I.P. From 5:00 M. to 5:30 A M. Hr. 30 Min. (D) 885 P.S.I.

Tool Open F.F.P. From 5:30 M. to 6:00 A M. Hr. 30 Min. From (E) 68 P.S.I. To (F) 67 P.S.I.

Tool Closed F.C.I.P. From 6:00 M. to 6:30 A M. Hr. 30 Min. (G) 593 P.S.I.

Initial Hydrostatic Pressure (A) 2361 P.S.I. Final Hydrostatic Pressure (H) 2341 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	1/4 In.		M.	
			M.	
			M.	

BLOW Weak for 10 minutes. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 3 feet mud with few oil specks.

Reversed Out Yes X No Mud Type starch Viscosity 43 Weight 9.8 Water Loss 10.8 cc. Maximum Temp. 121 °F

Type Circ. Sub plug Did Tool Plug? no Jars: Size no Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 528 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 55 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 3-8-68 Test Ticket No. 10465

Recorder No. 2606 Capacity 4150 Location 4462 Ft.

Clock No. 8475 Elevation 2497 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2361 P.S.I.	Opened Tool	4:48 A. M.	
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	10 Mins.	11 Mins.
C First Final Flow Pressure	57 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	885 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	68 P.S.I.	Final Closed-in Pressure	30 Mins.	29 Mins.
F Second Final Flow Pressure	67 P.S.I.			
G Final Closed-in Pressure	593 P.S.I.			
H Final Hydrostatic Mud	2341 P.S.I.			

PRESSURE BREAKDOWN

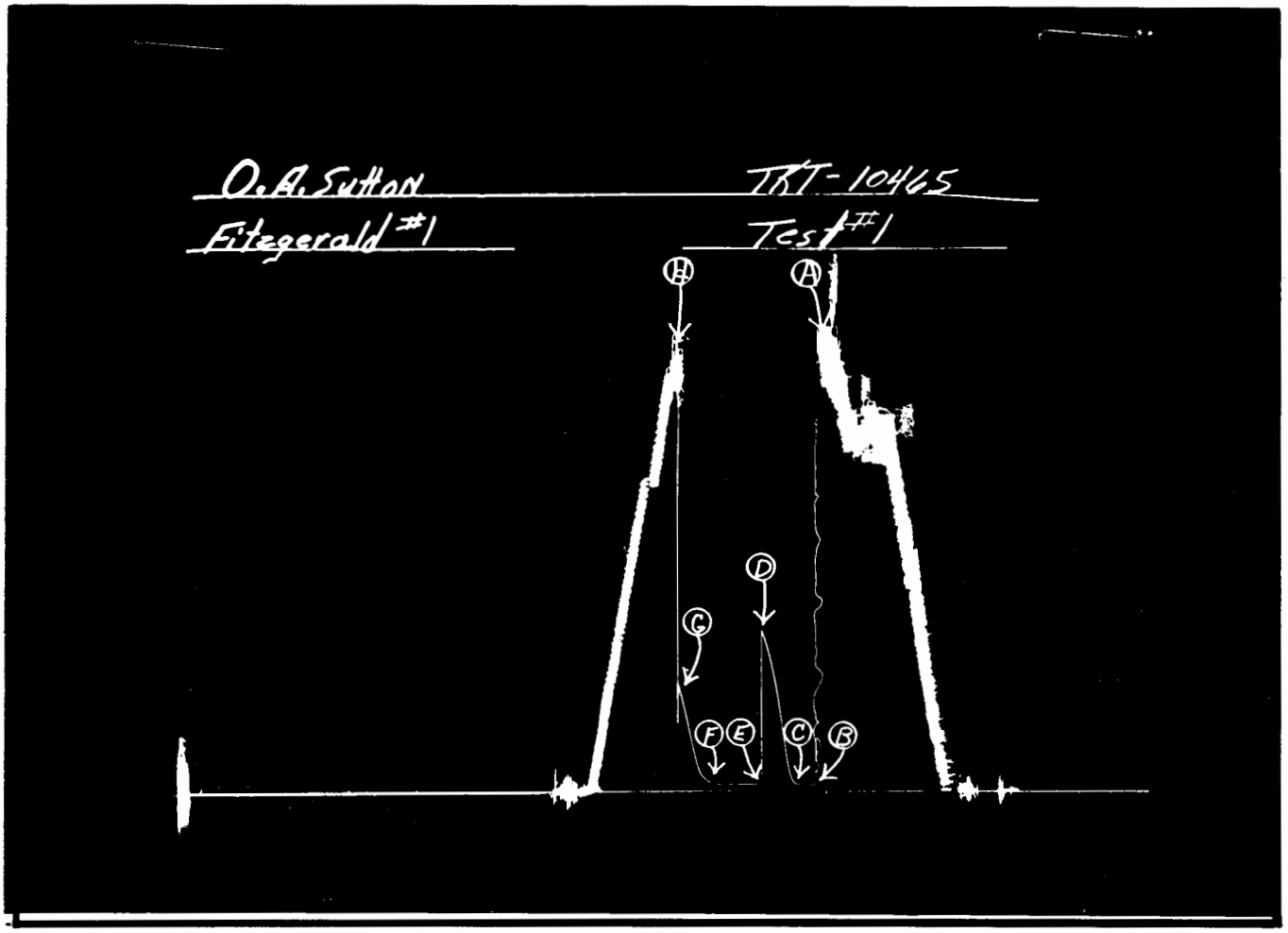
First Flow Press. Breakdown: 2 Inc. of 5 mins. and a final inc. of 1 Min.

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

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

Final Shut-In Breakdown: 9 Inc. of 3 mins. and a final inc. of 2 Min.

	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	56	0	57	0	68	0	67
P 2	5	56	3	58	5	66	3	70
P 3	10	56	6	59	10	66	6	73
P 4	11	57	9	106	15	66	9	78
P 5			12	243	20	66	12	114
P 6			15	395	25	67	15	176
P 7			18	528	30	67	18	270
P 8			21	638			21	374
P 9			24	747			24	472
P10			27	835			27	549
P11			30	885			29	593
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	2365	2361	PSI
(B)	First Initial Flow Pressure	52	56	PSI
(C)	First Final Flow Pressure	52	57	PSI
(D)	Initial Closed-in Pressure	883	885	PSI
(E)	Second Initial Flow Pressure	62	68	PSI
(F)	Second Final Flow Pressure	62	67	PSI
(G)	Final Closed-in Pressure	593	593	PSI
(H)	Final Hydrostatic Mud	2344	2341	PSI

C SE SM

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company O. A. Sutton Lease & Well No. Fitzgerald # 1

Elevation 2497 Kelly Bushing Formation Mississippi Effective Pay 12 Ft. Ticket No. 10466

Date 3-9-68 Sec. 22 Twp. 19s Range 25w County Ness State Kansas

Test Approved by R. M. Euwer Western Representative Dean Blagrave

Formation Test No. 2 O.K. X Misrun Interval Tested From 4549' to 4565' Total Depth 4565'

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 4544 Ft. Size 6 3/4 Packer Depth 4549 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 16 Ft. Size 5½"OD

RECORDERS Depth 4556 Ft. Clock No. 8475 Depth 4559 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 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 6:53 A. M

Tool Open I.F.P. From 6:55 M. to 7:05 A M. Hr. 10 Min. From (B) 39 P.S.I. To (C) 39 P.S.I.

Tool Closed I.C.I.P. From 7:05 M. to 7:35 A M. Hr. 30 Min. (D) 45 P.S.I.

Tool Open F.F.P. From 7:35 M. to 8:05 A M. Hr. 30 Min. From (E) 40 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 8:05 M. to 8:35 A M. Hr. 30 Min. (G) 44 P.S.I.

Initial Hydrostatic Pressure (A) 2359 P.S.I. Final Hydrostatic Pressure (H) 2336 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	1/4 In.		M.	
			M.	
			M.	

BLOW Weak for 10 minutes. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 2 feet mud.

Reversed Out Yes X No Mud Type starch Viscosity 47 Weight 9.9 Water Loss 10.4 cc. Maximum Temp. 122 °F

Type Circ. Sub plug Did Tool Plug? no Jars: Size no Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe ft. I.D. Drill Pipe in. Length Weight Pipe 528 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 34 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 3-9-68 Test Ticket No. 10466

Recorder No. 2606 Capacity 4150 Location 4556 Ft.

Clock No. 8475 Elevation 2497 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2359 P.S.I.	Opened Tool	6:53 A. M	
B First Initial Flow Pressure	39 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	39 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	45 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	40 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	40 P.S.I.			
G Final Closed-in Pressure	44 P.S.I.			
H Final Hydrostatic Mud	2336 P.S.I.			

PRESSURE BREAKDOWN

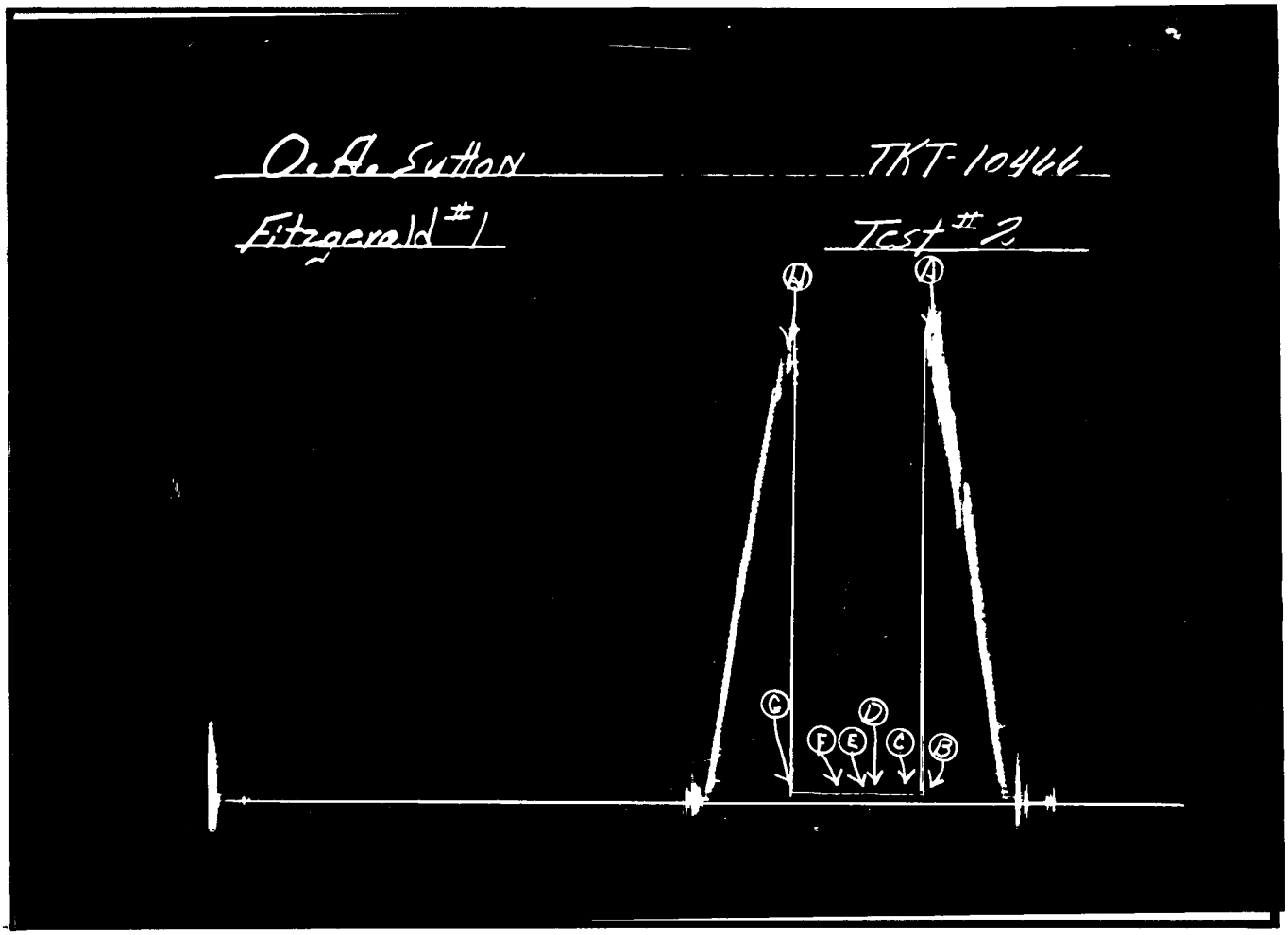
First Flow Press.
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of -- Min.

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

Second Flow Pressure
Breakdown: 6 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	39		0	39		0	40		0	40
P 2	5	39		3	39		5	40		3	40
P 3	10	39		6	39		10	40		6	41
P 4				9	39		15	40		9	42
P 5				12	39		20	40		12	44
P 6				15	40		25	40		15	44
P 7				18	41		30	40		18	44
P 8				21	41					21	44
P 9				24	43					24	44
P10				27	44					27	44
P11				30	45					30	44
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	2365	2359	PSI
(B)	First Initial Flow Pressure	41	39	PSI
(C)	First Final Flow Pressure	41	39	PSI
(D)	Initial Closed-in Pressure	52	45	PSI
(E)	Second Initial Flow Pressure	41	40	PSI
(F)	Second Final Flow Pressure	41	40	PSI
(G)	Final Closed-in Pressure	41	44	PSI
(H)	Final Hydrostatic Mud	2334	2336	PSI

C 56 54

WESTERN

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

Company O. A. Sutton Lease & Well No. Fitzgerald # 1

Elevation 2497 Kelly Bushing Formation Mississippian Effective Pay 15 Ft. Ticket No. 10467

Date 309-68 Sec. 22 Twp. 19s Range 25w County Ness State Kansas

Test Approved by R. M. Euwer Western Representative Dean Blagrave

Formation Test No. 3 O.K. x Misrun Interval Tested From 4565' to 4580' Total Depth 4580'

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 4560 Ft. Size 6 3/4 Packer Depth 4565 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½" OD Anchor Length 15 Ft. Size 5½"OD

RECORDERS Depth 4571 Ft. Clock No. 8475 Depth 4574 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside ~~Outside~~ Bottom Make Amerada Cap. 4300 No. 1567 ~~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 6:13 P. M

Tool Open I.F.P. From 6:15 M. to 6:25 P M. Hr. 10 Min. From (B) 43 P.S.I. To (C) 49 P.S.I.

Tool Closed I.C.I.P. From 6:25 M. to 6:55 P M. Hr. 30 Min. (D) 1281 P.S.I.

Tool Open F.F.P. From 6:55 M. to 8:55 P M. 2 Hr. -- Min. From (E) 74 P.S.I. To (F) 196 P.S.I.

Tool Closed F.C.I.P. From 8:55 M. to 9:55 P M. 1 Hr. -- Min. (G) 1127 P.S.I.

Initial Hydrostatic Pressure (A) 2421 P.S.I. Final Hydrostatic Pressure (H) 2413 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak increasing to fair. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. five feet oil; 370 feet muddy salt water.

Reversed Out Yes x No Mud Type starch Viscosity 51 Weight 9.9 Water Loss 10 cc. Maximum Temp. 129 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size no Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 528 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 33 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 3-9-68 Test Ticket No. 10467

Recorder No. 2606 Capacity 4150 Location 4571 Ft.

Clock No. 8475 Elevation 2497 Kelly Bushing Well Temperature 129 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2421 P.S.I.	Opened Tool	6:13 P. M.	
B	First Initial Flow Pressure	43 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	49 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1281 P.S.I.	Second Flow Pressure	120 Mins.	115 Mins.
E	Second Initial Flow Pressure	74 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	196 P.S.I.			
G	Final Closed-in Pressure	1127 P.S.I.			
H	Final Hydrostatic Mud	2413 P.S.I.			

PRESSURE BREAKDOWN

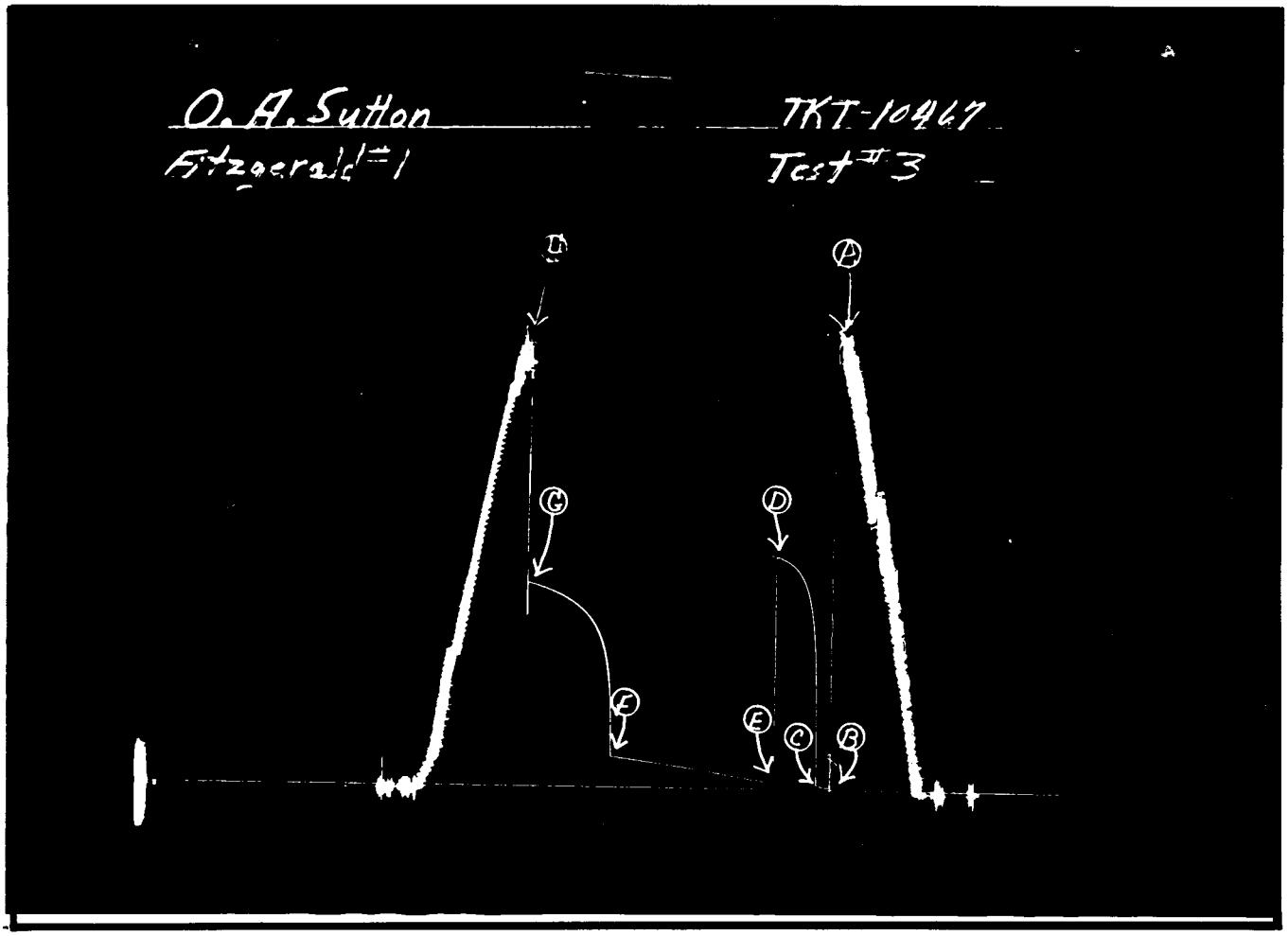
First Flow Press. Breakdown: 2 Inc. of 5 mins. and a final inc. of -- Min.

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

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

Final Shut-In Breakdown: 20 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	43	0	49	0	74	0	196
P 2 5	47	3	669	5	75	3	597
P 3 10	49	6	948	10	76	6	752
P 4		9	1082	15	80	9	835
P 5		12	1149	20	85	12	893
P 6		15	1192	25	89	15	933
P 7		18	1225	30	93	18	962
P 8		21	1246	35	101	21	989
P 9		24	1260	40	110	24	1010
P10		27	1271	45	117	27	1026
P11		30	1281	50	124	30	1043
P12				55	131	33	1055
P13				60	139	36	1068
P14				65	144	39	1078
P15				70	149	42	1091
P16				75	155	45	1096
P17				80	162	48	1103
P18				85	168	51	1110
P19				90	172	54	1117
P20				95	178	57	1123
				100	185	60	1127
				105	189		
				110	193		
				115	196		



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2418	2421	PSI
(B)	First Initial Flow Pressure	41	43	PSI
(C)	First Final Flow Pressure	41	49	PSI
(D)	Initial Closed-in Pressure	1277	1281	PSI
(E)	Second Initial Flow Pressure	72	74	PSI
(F)	Second Final Flow Pressure	197	196	PSI
(G)	Final Closed-in Pressure	1132	1127	PSI
(H)	Final Hydrostatic Mud	2407	2413	PSI

C SE SW