WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company: Petroleum, Inc. Lease & Well No.: [illegible] #1

Elevation: - Ticket Number: 1723

Date: 3-31-63 Sec.: 15 Twp.: 35S Range: 42W County: Morton State: Kansas

Test Approved by: [illegible] Western Representative: [illegible]

Formation Test No.: 1 O.K.: ___ Misrun: ___ Interval Tested From: 1404' to: 1554' Total Depth: 1554'

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

Packer Depth: 1404 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: 5½" O.D. Tool Jt. Size: 4½" F.H. Anchor Length: 150 Ft. Perf / D.C. Size: 30' 5½" O.D. 120 - 6¼

RECORDERS Depth: 1546 Ft Clock No.: 6859 Depth: 1549 Ft. Clock No.: -

Top Make: Amerada Cap.: 4200# No.: 1599 Inside/Outside Bottom Make: [illegible] Cap.: 4000# No.: 3 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: 11:43 A M

Tool Open I.F.P. From: 11:46P M to: 11:51P M - Hr. 5 Min. From (B): 69 P.S.I. To (C): 102 P.S.I.

Tool Closed I.C.I.P. From: 11:51P M. to: 12:21P M. - Hr. 30 Min. (D): 439 P.S.I.

Tool Open F.F.P. From: 12:21P M. to: 1:21P M. 1 Hr. - Min. From (E): 119 P.S.I. To (F): 254 P.S.I.

Tool Closed F.C.I.P. From: 1:21P M. to: 1:51P M. - Hr. 30 Min. (G): 390 P.S.I.

Inital Hydrostatic Pressure (A): 716 P.S.I. Final Hydrostatic Pressure (H): 724 P.S.I.

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

BLOW: Weak (2" Blow) Bottom Choke Size: 3/4 in.

Did Well Flow: ___ Yes: X No Recovery Total Ft.: 360

360' watery mud with order of Gas, in bot. [illegible]

Reversed Out: X Yes ___ No Mud Type: Chem Viscosity: 33 Weight: 9.4 Mud Maximum Temp.: 73 °F

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

Type Circ. Sub.: None Did Tool Plug?: No Where?: ___ Did Packer Hold?: Yes

Length Drill Pipe: 911' ft. I.D. Drill Pipe: 3.8 in. Length Weight Pipe: - ft. I.D. Weight Pipe: ___ in. Length Drill Collars: 480 ft.

I. D. Drill Collars: 2-1/4 in. Length D. S. T. Tool: ___ ft. 4½" with 120' 6¼" D.C. in anchor

Remarks: The irregularity at the time of final flow was caused by picking the pipe too high and opened bypass.

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 1-31-63 Test Ticket No. 2723

Recorder No. 1597 Capacity 4200# Location 1546 Ft.

Clock No. 6859 Elevation ∞ Well Temperature 72 °F

Point		Pressure	
A	Initial Hydrostatic Mud	716	P.S.I.
B	First Initial Flow Pressure	69	P.S.I.
C	First Final Flow Pressure	102	P.S.I.
D	Initial Closed-in Pressure	439	P.S.I.
E	Second Initial Flow Pressure	139	P.S.I.
F	Second Final Flow Pressure	254	P.S.I.
G	Final Closed-in Pressure	390	P.S.I.
H	Final Hydrostatic Mud	714	P.S.I.

	Time Given		Time Computed	
Opened Tool	11:46	M.	11:46	PM
First Flow Pressure	5	Mins.	5	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	60	Mins.	62	Mins.
Final Closed-in Pressure	30	Mins.	30	Mins.

PRESSURE BREAKDOWN

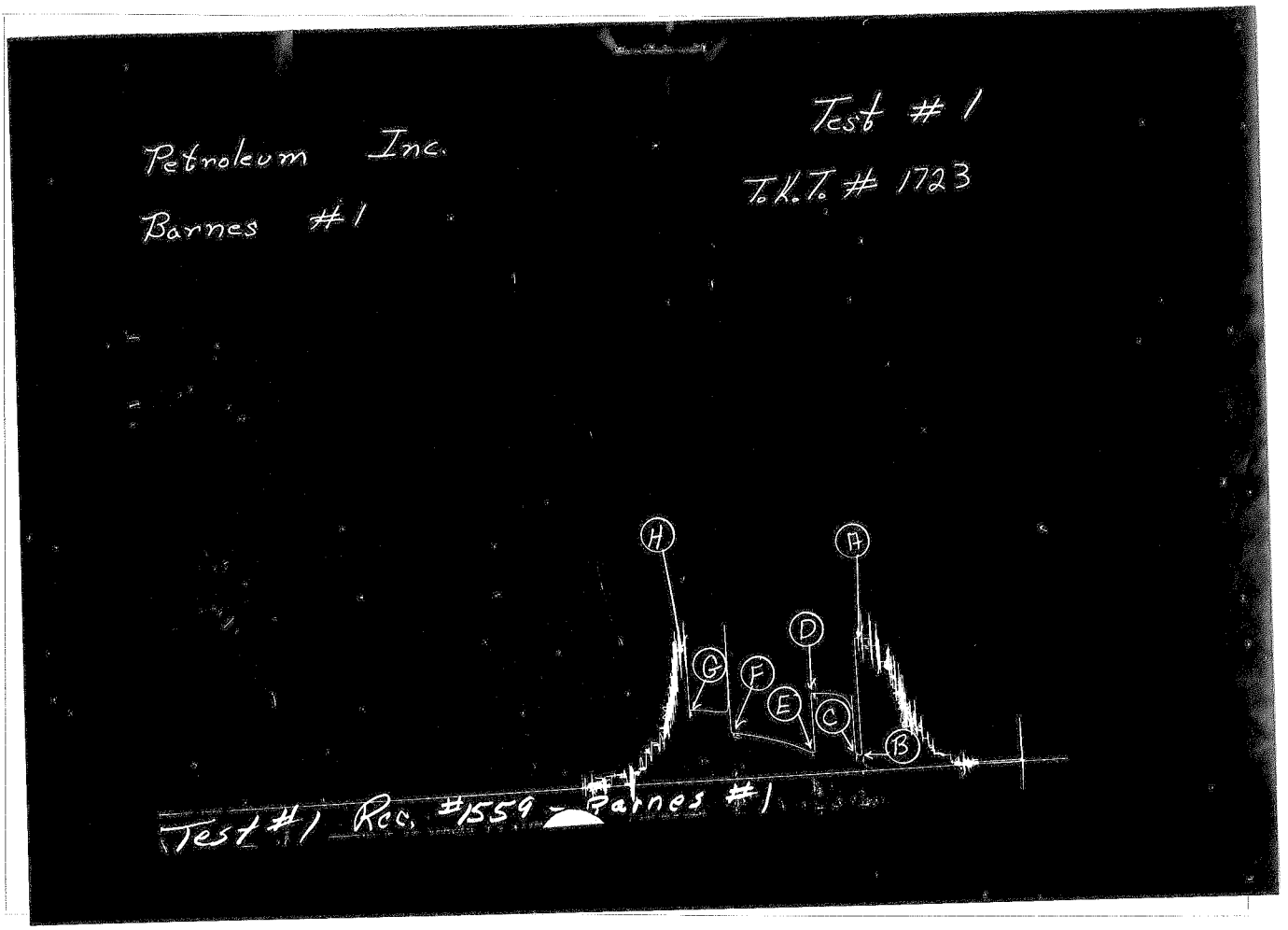
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of ∞ Min.

Initial Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of ∞ 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 69	0	102	0	119	0	254
P 2	5 102	3	361	5	129	3	369
P 3		6	397	10	146	6	369
P 4		9	418	15	163	9	370
P 5		12	424	20	175	12	374
P 6		15	428	25	188	15	380
P 7		18	430	30	198	18	382
P 8		21	433	35	211	21	386
P 9		24	435	40	219	24	387
P10		27	438	45	229	27	388
P11		30	439	50	238	30	390
P12				55	244		
P13				60	250		
P14				62	254		
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	716	PSI
(B)	First Initial Flow Pressure	69	PSI
(C)	First Final Flow Pressure	102	PSI
(D)	Initial Closed-in Pressure	439	PSI
(E)	Second Initial Flow Pressure	119	PSI
(F)	Second Final Flow Pressure	254	PSI
(G)	Final Closed-in Pressure	1390	PSI
(H)	Final Hydrostatic Mud	714	PSI

Company Petroleum, Inc. Lease and Well No. Barnes #1 Sec. 15 Twp. 32S Rge. 14W Test No. 1 Date 1-22-

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Petroleum, Inc. Lease & Well No. Barnes #1

Elevation - Ticket Number 2164

Date 2-3-63 Sec. 15 Twp. 35 Range 42W County Morton State Kansas

Test Approved by N. W. Marden Western Representative W. M. Nething

Formation Test No. 2 O.K. X Misrun - Interval Tested From 2980' to 3075' Total Depth 3075'

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 2980 Ft. Size 6 3/4" Packer Depth 2975 Ft. Size 6 3/4"

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

Packer Depth Ft Size

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 95 Ft. Size 60' 6' D.C.-35' Perf. 5½" OD

RECORDERS Depth 3002 Ft Clock No. 6899 Depth 3004 Ft. Clock No. 22

Top Make Amerada Cap. 3150# No. 1564 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 17 ~~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 6:30 A M

Tool Open I.F.P. From 6:33A M to 6:38A M - Hr. 5 Min. From (B) 62 P.S.I. To (C) 68 P.S.I.

Tool Closed I.C.I.P. From 6:38A M. to 7:08A M. - Hr. 30 Min. (D) 398 P.S.I.

Tool Open F.F.P. From 7:08A M. to 8:08A M. 1 Hr. - Min. From (E) 91 P.S.I. To (F) 132 P.S.I.

Tool Closed F.C.I.P. From 8:08A M. to 8:38A M. - Hr. 30 Min. (G) 400 P.S.I.

Inital Hydrostatic Pressure (A) 1514 P.S.I. Final Hydrostatic Pressure (H) 1492 P.S.I.

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

BLOW Weak blow throughout test Bottom Choke Size 3/4 in.

Did Well Flow Yes X No Recovery Total Ft. 240

240' Mud

Reversed Out Yes X No Mud Type Chem Viscosity 36 Weight 9.6 Maximum Temp. - °F

EXTRA EQUIPMENT: Dual Packers Dual Safety Joint Yes Jars: Size 3½" Make Bowen Ser. No. 2935

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

Length Drill Pipe 2412 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 540 ft.

I. D. Drill Collars 2¼ in. Length D. S. T. Tool 123 ft.

Remarks

This irregular flow pressure was caused by a partial plugging action while tool was open.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-3-63 Test Ticket No. 2164

Recorder No. 1564 Capacity 3150# Location 3002 Ft.

Clock No. 6899 Elevation --- Well Temperature --- °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1514 P.S.I.	Opened Tool	6:33A	M	6:33AM	
B	First Initial Flow Pressure	62 P.S.I.	First Flow Pressure	5	Mins.	5	Mins.
C	First Final Flow Pressure	68 P.S.I.	Initial Closed-in Pressure	30	Mins.	27	Mins.
D	Initial Closed-in Pressure	398 P.S.I.	Second Flow Pressure	60	Mins.	58	Mins.
E	Second Initial Flow Pressure	91 P.S.I.	Final Closed-in Pressure	30	Mins.	28	Mins.
F	Second Final Flow Pressure	132 P.S.I.					
G	Final Closed-in Pressure	400 P.S.I.					
H	Final Hydrostatic Mud	1492 P.S.I.					

PRESSURE BREAKDOWN

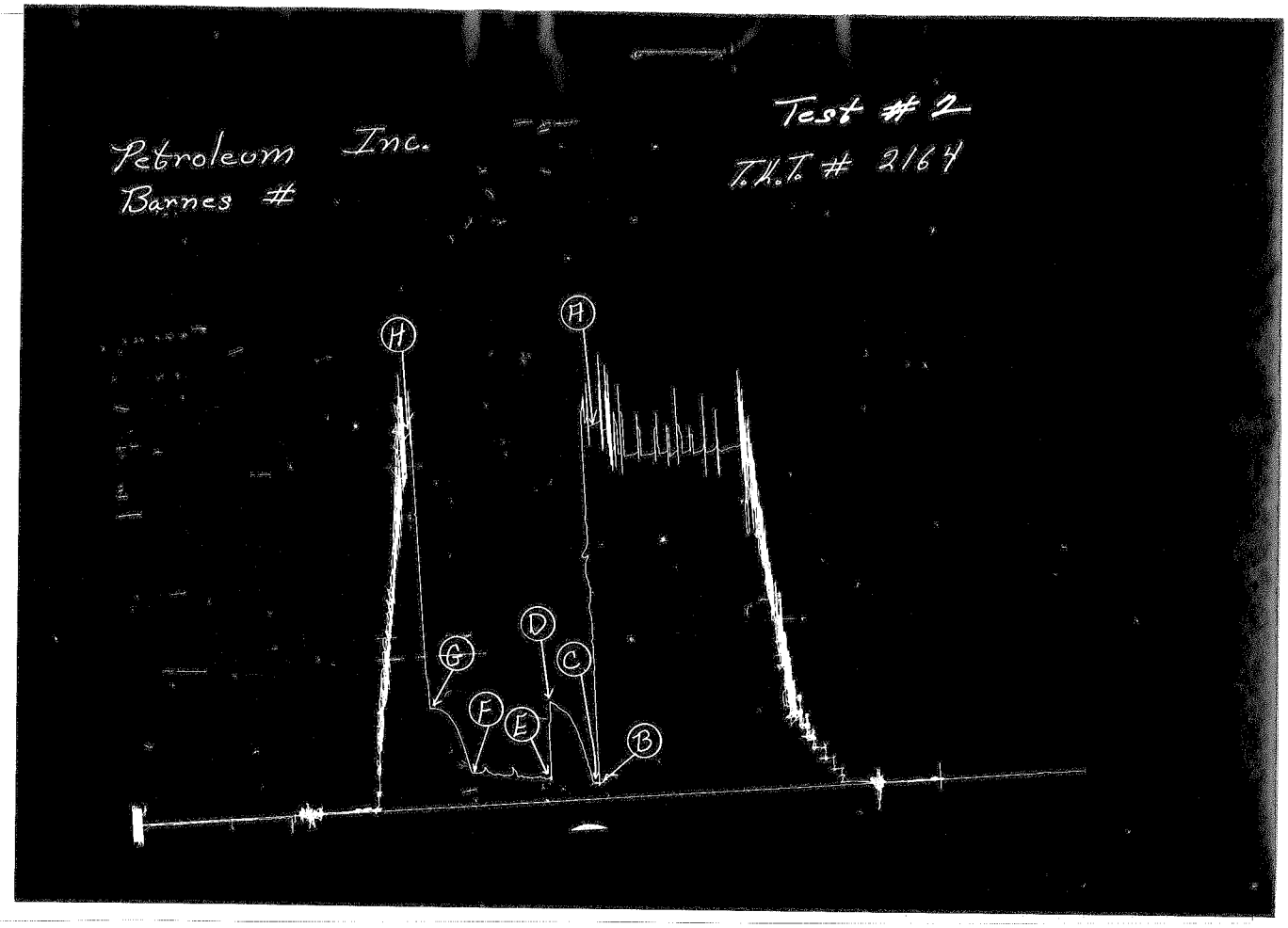
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of --- Min.

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

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 3 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	62	0	68	0	91	0	132
P 2	5	68	3	141	5	96	3	184
P 3			6	206	10	100	6	253
P 4			9	262	15	100	9	308
P 5			12	305	20	103	12	340
P 6			15	339	25	106	15	368
P 7			18	354	30	114	18	383
P 8			21	367	35	114	21	393
P 9			24	386	40	120	24	398
P10			27	392	45	130	27	400
P11			29	398	50	131	28	400
P12					55	131		
P13					58	132		
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	3514	PSI
(B)	First Initial Flow Pressure	62	PSI
(C)	First Final Flow Pressure	68	PSI
(D)	Initial Closed-in Pressure	378	PSI
(E)	Second Initial Flow Pressure	65	PSI
(F)	Second Final Flow Pressure	132	PSI
(G)	Final Closed-in Pressure	400	PSI
(H)	Final Hydrostatic Mud	3492	PSI

Company Petroleum, Inc. Lease and Well No. Barnes #2 Sec. 15 Twp. 30 Rge. 42 Test No. 2 Date 3-24-61

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Petroleum, Inc. Lease & Well No. Larson #1

Elevation 3344' D.F. Ticket Number 2317

Date 8-5-63 Sec. 13 Twp. 35 Range 42W County Morton State Kansas

Test Approved by W. G. Horton Western Representative Norman Allen

Formation Test No. 3 O.K. X Misrun ____ Interval Tested From 3590' to 3623' Total Depth 3623'

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

Packer Depth 3585 Ft. Size 6 3/4" Packer Depth 3590 Ft. Size 6 3/4"

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

Packer Depth ____ Ft Size ____

Tool Size 5½" O.D. Tool Jt. Size 4½" X.H. Anchor Length 33 Ft. Size 5½" O.D.

RECORDERS Depth 3616 Ft Clock No. 6893 Depth 3618 Ft. Clock No. 35

Top Make Amerada Cap. 6000# No. 1566 Inside Outside Bottom Make Astern Cap. 6000# No. 35 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 6:13A M

Tool Open I.F.P. From 6:15A M to 6:20A M = Hr. 5 Min. From (B) 67 P.S.I. To (C) 93 P.S.I.

Tool Closed I.C.I.P. From 6:20A M. to 6:50A M. = Hr. 30 Min. (D) 710 P.S.I.

Tool Open F.F.P. From 6:50A M. to 7:50A M. 1 Hr. = Min. From (E) 131 P.S.I. To (F) 324 P.S.I.

Tool Closed F.C.I.P. From 7:50A M. to 8:20A M. = Hr. 30 Min. (G) 668 P.S.I.

Inital Hydrostatic Pressure (A) 1825 P.S.I. Final Hydrostatic Pressure (H) 1776 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Fair blow diminishing slightly at end of test Bottom Choke Size ¾ in.

Did Well Flow X Yes ____ No Recovery Total Ft. 600

330' muddy salt water - 270' clear salt water

Reversed Out ____ Yes X No Mud Type Chem Viscosity 33 Weight 9.4 Maximum Temp. 98 °F Mud

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3½" F.H. Make Dowell Ser. No. 2639

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

Length Drill Pipe 2960 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 63 ft. I.D. Weight Pipe 2¼ in. Length Drill Collars 600 ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 2-5-63 Test Ticket No. 2317

Recorder No. 1566 Capacity 6200# Location 3516 Ft.

Clock No. 6593 Elevation 3504' D.F. Well Temperature 98 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1823	P.S.I.
B	First Initial Flow Pressure	67	P.S.I.
C	First Final Flow Pressure	93	P.S.I.
D	Initial Closed-in Pressure	710	P.S.I.
E	Second Initial Flow Pressure	131	P.S.I.
F	Second Final Flow Pressure	324	P.S.I.
G	Final Closed-in Pressure	668	P.S.I.
H	Final Hydrostatic Mud	1796	P.S.I.

	Time Given		Time Computed	
Opened Tool	6:15	A.M.	6:15	A.M.
First Flow Pressure	5	Mins.	4	Mins.
Initial Closed-in Pressure	30	Mins.	27	Mins.
Second Flow Pressure	60	Mins.	57	Mins.
Final Closed-in Pressure	30	Mins.	27	Mins.

PRESSURE BREAKDOWN

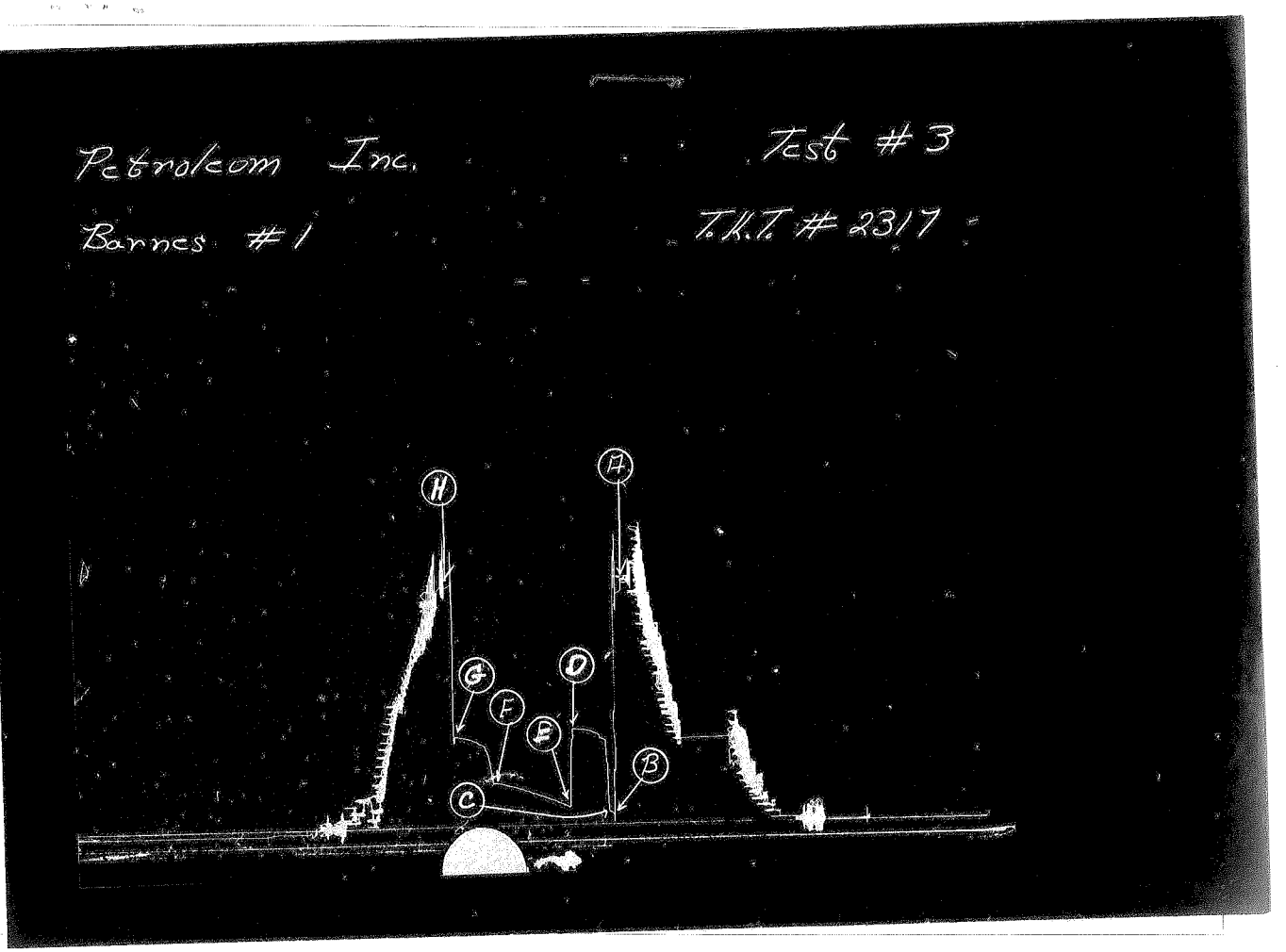
First Flow Press.
Breakdown: 1 Inc.
of 4 mins. and a
final inc. of 0 Min.

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

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 2 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	67	0	93	0	131	0	324
P 2 4	93	3	627	5	154	3	525
P 3		6	639	10	175	6	598
P 4		9	677	15	192	9	610
P 5		12	689	20	213	12	630
P 6		15	699	25	233	15	645
P 7		18	704	30	251	18	653
P 8		21	707	35	268	21	660
P 9		24	709	40	286	24	665
P10		27	710	45	297	27	668
P11				50	312		
P12				55	321		
P13				57	324		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1823	PSI
(B)	First Initial Flow Pressure	67	PSI
(C)	First Final Flow Pressure	93	PSI
(D)	Initial Closed-in Pressure	730	PSI
(E)	Second Initial Flow Pressure	191	PSI
(F)	Second Final Flow Pressure	324	PSI
(G)	Final Closed-in Pressure	668	PSI
(H)	Final Hydrostatic Mud	1795	PSI

Company Petroleum, Inc. Lease and Well No. Barnes #1 Sec. 19 Twp. 35 Rge. 12W Test No. 3 Date 2-5-68

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Petroleum, Inc. Lease & Well No. Barnes #1

Elevation 3586' K.B. Ticket Number 1921

Date 2-8-63 Sec. 15 Twp. 35S Range 43W County Morton State Kansas

Test Approved by D. V. Marden Western Representative Gene Williamke

Formation Test No. 4 O.K. X Misrun — Interval Tested From 4519' to 4570' Total Depth 4570'

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

Packer Depth 4512 Ft. Size 6 3/4" Packer Depth 4519 Ft. Size 6 3/4"

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

Packer Depth — Ft Size —

Tool Size 5 3/4" Tool Jt. Size 4½" XH & 4" API Anchor Length 51 Ft. Size 5½" O.D. and D. Collars

RECORDERS Depth 4529 Ft Clock No. 6860 Depth 4533 Ft. Clock No. 44

Top Make Amerada Cap. 6200# No. 1567 Inside — Outside — Bottom Make Western Cap. 6000# No. 44 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 7:35 A M

Tool Open I.F.P. From 7:37½A M to 7:42A M — Hr. — Min. From (B) 78 P.S.I. To (C) 135 P.S.I.

Tool Closed I.C.I.P. From 7:42A M. to 8:13A M. — Hr. 31 Min. (D) 1284 P.S.I.

Tool Open F.F.P. From 8:13A M. to 9:13A M. 1 Hr. — Min. From (E) 183 P.S.I. To (F) 517 P.S.I.

Tool Closed F.C.I.P. From 9:13A M. to 9:43A M. — Hr. 30 Min. (G) 1260 P.S.I.

Inital Hydrostatic Pressure (A) 2248 P.S.I. Final Hydrostatic Pressure (H) 2239 P.S.I.

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

— M. —

— M. —

— M. —

BLOW Fair to good in 35 mins. - Good rest of test Bottom Choke Size 1 in.

Did Well Flow X Yes — No Recovery Total Ft. 930 810' Oassy Salt water

30' Watery mud - 90' muddy salt water - 810' Oassy salt water Mud

Reversed Out — Yes X No Mud Type Chem Viscosity 41 Weight 9.4 Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3½" Make Dowan Ser. No. 710

Type Circ. Sub. 4½" F.H. Plug Did Tool Plug? No Where? — Did Packer Hold? Yes

Length Drill Pipe 3952 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe — ft. I.D. Weight Pipe — in. Length Drill Collars 570 ft.

I. D. Drill Collars 2¼ in. Length D. S. T. Tool 78 ft.

Remarks Hole took mud about every 2 mins. throughout test

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 3-6-63 Test Ticket No. 1921

Recorder No. 1567 Capacity 6000# Location 4519 Ft.

Clock No. 6660 Elevation 3586' K.B. Well Temperature 118 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2248 P.S.I.	Opened Tool	7:37 A	M	7:37 AM	
B	First Initial Flow Pressure	78 P.S.I.	First Flow Pressure	4½	Mins.	5	Mins.
C	First Final Flow Pressure	135 P.S.I.	Initial Closed-in Pressure	31	Mins.	30	Mins.
D	Initial Closed-in Pressure	1284 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	183 P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	517 P.S.I.					
G	Final Closed-in Pressure	1260 P.S.I.					
H	Final Hydrostatic Mud	2239 P.S.I.					

PRESSURE BREAKDOWN

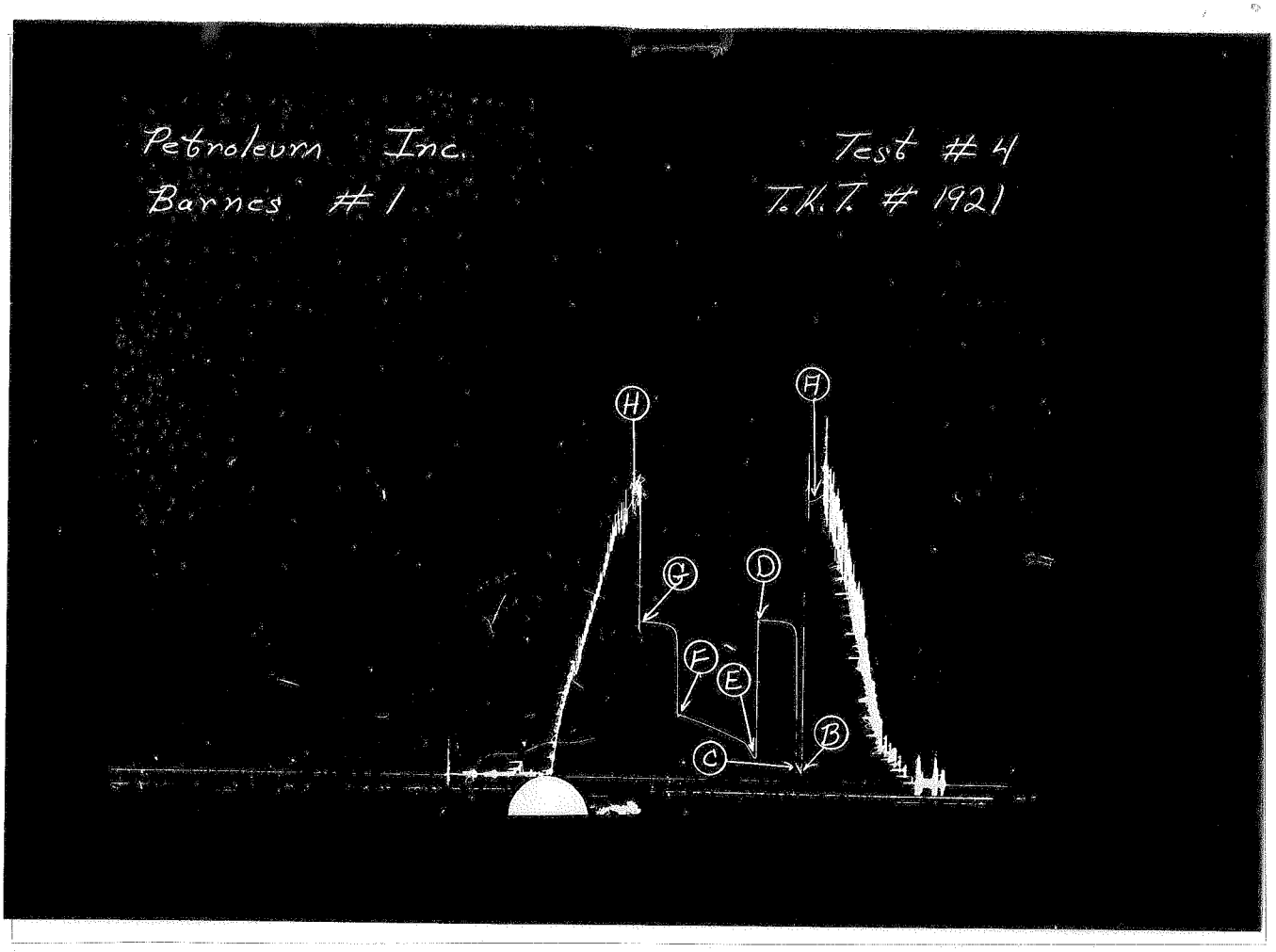
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of ** Min.

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

Second Flow Pressure
Breakdown: 10 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	78	0	135	0	183	0	517
P 2 5	122	3	1169	5	246	3	1184
P 3		6	1254	10	307	6	1218
P 4		9	1266	15	334	9	1233
P 5		12	1272	20	358	12	1242
P 6		15	1278	25	379	15	1245
P 7		18	1281	30	406	18	1248
P 8		21	1284	35	427	21	1251
P 9		24	1284	40	451	24	1254
P10		27	1284	45	466	27	1257
P11		30	1284	50	481	30	1260
P12				55	502		
P13				60	517		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2248	PSI
(B)	First Initial Flow Pressure	78	PSI
(C)	First Final Flow Pressure	135	PSI
(D)	Initial Closed-in Pressure	1284	PSI
(E)	Second Initial Flow Pressure	183	PSI
(F)	Second Final Flow Pressure	517	PSI
(G)	Final Closed-in Pressure	1260	PSI
(H)	Final Hydrostatic Mud	2239	PSI

Company Petroleum, Inc. Lease and Well No. Barnes #1 Sec. 15 Twp. 35S Rge. 42W Test No. 4 Date 2-8-6

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Petroleum, Inc. Lease & Well No. Barnes #1

Elevation 3586' K.B. Ticket Number 1922

Date 2-9-63 Sec. 15 Twp. 3S Range 22W County Norton State Kansas

Test Approved by D. V. Harman Western Representative Dave Williamson

Formation Test No. 5 O.K. X Misrun ____ Interval Tested From 4569' to 4660' Total Depth 4660'

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

Packer Depth 4562 Ft. Size 6 3/4" Packer Depth 4569 Ft. Size 6 3/4"

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

Packer Depth ____ Ft Size ____

Tool Size 5 3/4" Tool Jt. Size 4½" FH & 4" AOH Anchor Length 91 Ft. Size 5½" O.D. & D.C.

RECORDERS Depth 4650 Ft Clock No. 6060 Depth 4654 Ft. Clock No. 44

Top Make Amerada Cap. 6000# No. 1567 Inside Outside Bottom Make Amerada Cap. 6000# No. 44 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 5:13A M

Tool Open I.F.P. From 5:15A M to 5:20A M ** Hr. 5 Min. From (B) 81 P.S.I. To (C) 81 P.S.I.

Tool Closed I.C.I.P. From 5:20A M. to 5:50A M. - Hr. 30 Min. (D) 129 P.S.I.

Tool Open F.F.P. From 5:50A M. to 6:50A M. 1 Hr. - Min. From (E) 84 P.S.I. To (F) 84 P.S.I.

Tool Closed F.C.I.P. From 6:50A M. to 7:20A M. - Hr. 30 Min. (G) 93 P.S.I.

Inital Hydrostatic Pressure (A) 2347 P.S.I. Final Hydrostatic Pressure (H) 2300 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Few bubbles at first of preflow, no blow after Bottom Choke Size 1 in.

Did Well Flow ____ Yes X No Recovery Total Ft. 15

15' Drilling Mud Mud

Reversed Out ____ Yes X No Mud Type Chem Viscosity 48 Weight 9.2 Maximum Temp. 119 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 2½" Make Bowen Ser. No. 710

Type Circ. Sub 4½" F.H. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 4002 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ____ ft. I.D. Weight Pipe ____ in. Length Drill Collars 540 ft.

I. D. Drill Collars 2¼ in. Length D. S. T. Tool 116 ft.

Remarks

Quite a bit of vacuum on when steel hose was knocked loose

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 2-9-63 Test Ticket No. 1920

Recorder No. 1367 Capacity 6200# Location 6450 Ft.

Clock No. 6660 Elevation 3586' K.B. Well Temperature 119 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2847 P.S.I.	Opened Tool	5:25	M	5:25 AM	
B	First Initial Flow Pressure	61 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.	30	Mins.
D	Initial Closed-in Pressure	129 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	84 P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	84 P.S.I.					
G	Final Closed-in Pressure	93 P.S.I.					
H	Final Hydrostatic Mud	2800 P.S.I.					

PRESSURE BREAKDOWN

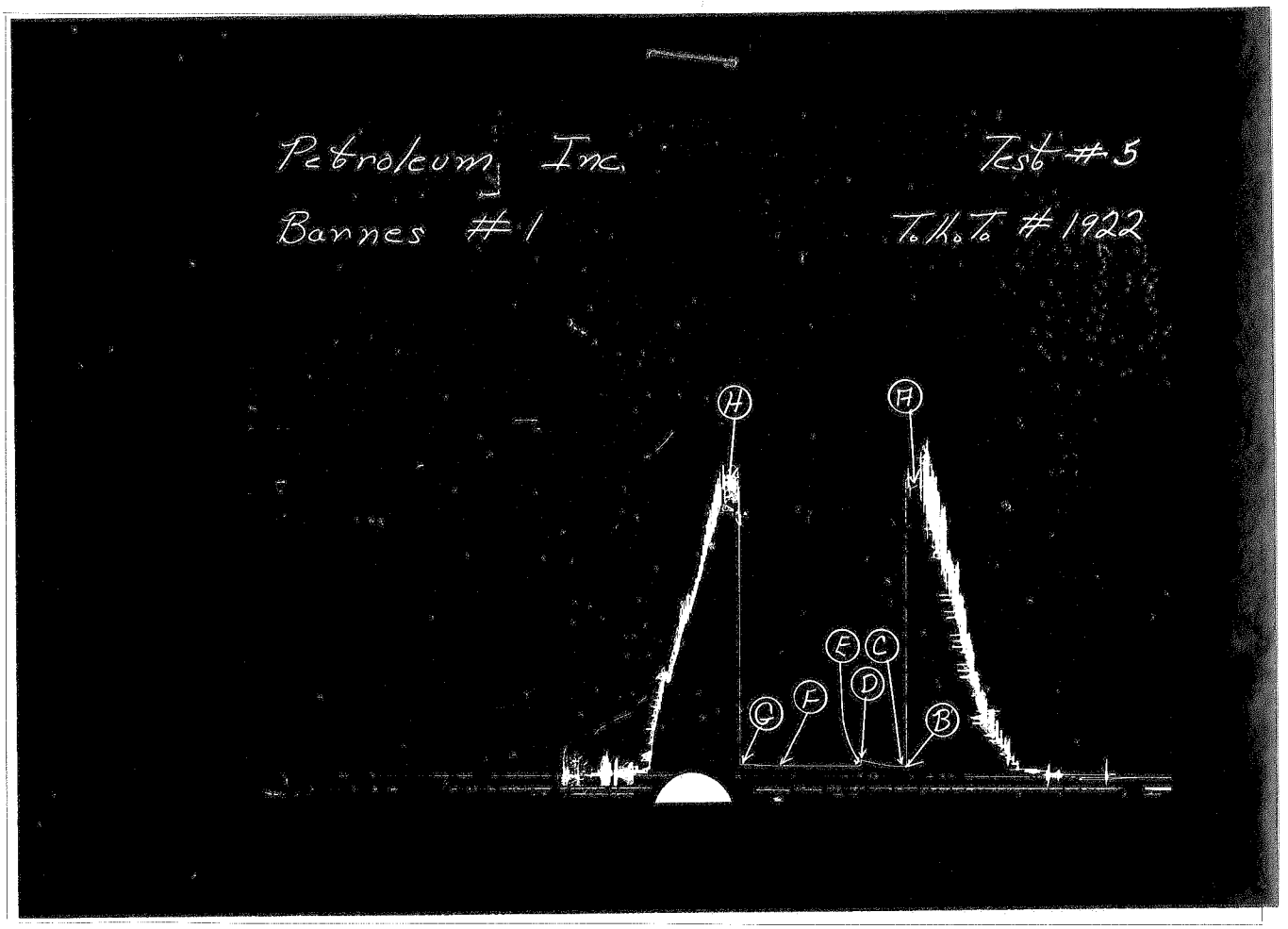
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of ** Min.

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

Second Flow Pressure
Breakdown: 10 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	83 81	0	83	0	84	0	84
P 2 5	83 81	3	83	5	84	3	84 84
P 3		6	84	10	84	6	84
P 4		9	90	15	84	9	84
P 5		12	93	20	84	12	87 87
P 6		15	99	25	84	15	87
P 7		18	105	30	84	18	90
P 8		21	111	35	84	21	93
P 9		24	120	40	84	24	93
P10		27	126	45	84	27	93
P11		30	129	50	84	30	93
P12				55	84		
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2347	PSI
(B)	First Initial Flow Pressure	81	PSI
(C)	First Final Flow Pressure	81	PSI
(D)	Initial Closed-in Pressure	129	PSI
(E)	Second Initial Flow Pressure	84	PSI
(F)	Second Final Flow Pressure	84	PSI
(G)	Final Closed-in Pressure	93	PSI
(H)	Final Hydrostatic Mud	2300	PSI

Company Petroleum, Inc. Lease and Well No. Barnes #1 Sec. 15 Twp. 35S Rge. 42W Test No. 5 Date 2-9-6