25-23-30w

WESTERN TESTERS

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

Company A. L. Abercrombie, Inc. Lease & Well No. Berndt # 2

Elevation 2817 Kelly Bushing Formation Kansas City Effective Pay Ft. Ticket No. 11414

Date 10-14-68 Sec. 35 Twp. 2s Range 30w County Decatur State Kansas

Test Approved by Jack K. Wharton Western Representative Dean Blagrave

Formation Test No. 1 O.K. x Misrun Interval Tested From 3798' to 3860' Total Depth 3860'

Size Main Hole 6¼ Rat Hole Conv. B.T x Damaged Yes x No Conv. x B.T. Damaged x Yes x No

Packer Depth 3793 Ft. Size 5½ Packer Depth 3798 Ft. Size 5½

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

Packer Depth Ft. Size

Tool Size 4½"OD Tool Jt. Size 3½"IF Anchor Length 62 Ft. Size 4½OD

RECORDERS Depth 3819 Ft. Clock No. 6895 Depth 3856 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 3:17 A M

Tool Open I.F.P. From 3:20 M. to 3:35A M. Hr. 15 Min. From (B) 47 P.S.I. To (C) 47 P.S.I.

Tool Closed I.C.I.P. From 3:35 M. to 4:05A M. Hr. 30 Min. (D) 1109 P.S.I.

Tool Open F.F.P. From 4:05 M. to 4:35A M. Hr. 30 Min. From (E) 64 P.S.I. To (F) 70 P.S.I.

Tool Closed F.C.I.P. From 4:35 M. to 5:05 AM. Hr. 30 Min. (G) 954 P.S.I.

Initial Hydrostatic Pressure (A) 1974 P.S.I. Final Hydrostatic Pressure (H) 1949 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 15 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 10 feet mud

Reversed Out Yes x No Mud Type chem Viscosity 35 Weight 10.1 Water Loss 12.5 cc. Maximum Temp. 127 °F

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

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

Length Drill Pipe ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe 1272 ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 80 ft.

Remarks Flushed at 15 minutes

WESTERN TESTING CO., INC.
Pressure Data

Date 10-14-68 Test Ticket No. 11414

Recorder No. 2606 Capacity 4150 Location 3819 Ft.

Clock No. 6895 Elevation 2817 Kelly Bushing Well Temperature 127 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1974 P.S.I.		Opened Tool	3:17A M	
B	First Initial Flow Pressure	47 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	47 P.S.I.		Initial Closed-in Pressure	30 Mins.	32 Mins.
D	Initial Closed-in Pressure	1109 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	64 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	70 P.S.I.				
G	Final Closed-in Pressure	954 P.S.I.				
H	Final Hydrostatic Mud	1949 P.S.I.				

PRESSURE BREAKDOWN

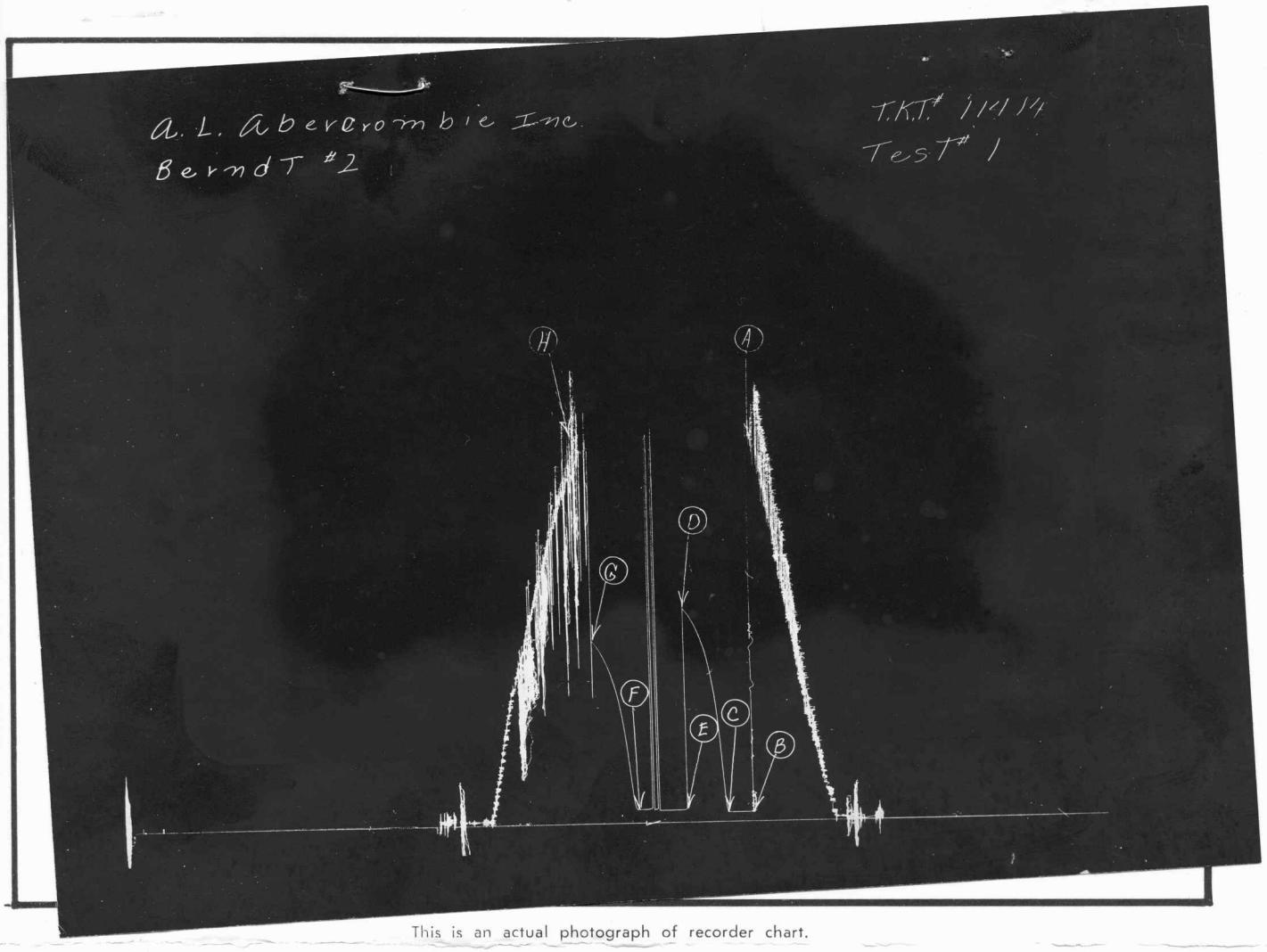
First Flow Press.
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 2 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	47	0	47	0	64	0	70
P 2 5	47	3	135	5	64	3	141
P 3 10	47	6	387	10	64	6	353
P 4 15	47	9	572	15	64	9	524
P 5		12	721	20	70	12	651
P 6		15	823	25	70	15	707
P 7		18	910	30	70	18	773
P 8		21	975			21	831
P 9		24	1020			24	875
P10		27	1057			27	910
P11		30	1089			30	954
P12		32	1109				
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	1989	1974	PSI
(B)	First Initial Flow Pressure	41	47	PSI
(C)	First Final Flow Pressure	41	47	PSI
(D)	Initial Closed-in Pressure	1111	1109	PSI
(E)	Second Initial Flow Pressure	62	64	PSI
(F)	Second Final Flow Pressure	72	70	PSI
(G)	Final Closed-in Pressure	956	954	PSI
(H)	Final Hydrostatic Mud	1957	1949	PSI

COMPANY A. L. Abercrombie, Inc. LEASE AND WELL NO. Berndt # 2 SEC. 35 TWP. 2s RGE. 30w TEST NO. 1 DATE 10-14-68

35-25-30

WESTERN TESTERS

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

Company A. L. Abercrombie, Inc. Lease & Well No. Berndt # 2

Elevation 2817 Kelly Bushing Formation Kansas City Effective Pay Ft. Ticket No. 11415

Date 10-14-68 Sec. 35 Twp. 2s Range 30w County Decatur State Kansas

Test Approved by Jack K. Wharton Western Representative Dean Blagrave

Formation Test No. 2 O.K. x Misrun Interval Tested From 3853' to 3895' Total Depth 3895'

Size Main Hole 6 1/4 Rat Hole Conv. B.T. x Damaged Yes x No Conv. x B.T. Damaged Yes x No

Packer Depth 3848 Ft. Size 5½ Packer Depth 3853 Ft. Size 5½

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

Packer Depth Ft. Size

Tool Size 4½"OD Tool Jt. Size 3½"IF Anchor Length 42 Ft. Size 4½"OD

RECORDERS Depth 3858 Ft. Clock No. 6895 Depth 3892 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 3:35 P M

Tool Open I.F.P. From 3:37 M. to 3:52P M. Hr. 15 Min. From (B) 20 P.S.I. To (C) 20 P.S.I.

Tool Closed I.C.I.P. From 3:52 M. to 4:22P M. Hr. 30 Min. (D) 1109 P.S.I.

Tool Open F.F.P. From 4:22 M. to 5:22P M. 1 Hr. - Min. From (E) 24 P.S.I. To (F) 33 P.S.I.

Tool Closed F.C.I.P. From 5:22 M. to 5:52P M. Hr. 30 Min. (G) 853 P.S.I.

Initial Hydrostatic Pressure (A) 2010 P.S.I. Final Hydrostatic Pressure (H) 2000 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 12 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 5 feet mud with few oil specks

Reversed Out Yes x No Mud Type chem Viscosity 43 Weight 9.9 Water Loss 8.2 cc. Maximum Temp. 130 °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 2.7 in. Length Weight Pipe 1272 ft. I.D. Weight Pipe in. Length Drill Collars 30 ft.

I. D. Drill Collars 2.2 in. Length D.S.T. Tool 60 ft.

Remarks Flushed at 15 minutes

WESTERN TESTING CO., INC.
Pressure Data

Date 10-14-68 Test Ticket No. 11415

Recorder No. 2606 Capacity 4150 Location 3858 Ft.

Clock No. 6895 Elevation 2817 Kelly Bushing Well Temperature 130 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2010	P.S.I.	Opened Tool	3:35P M	
B	First Initial Flow Pressure	20	P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	20	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1109	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	24	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	33	P.S.I.			
G	Final Closed-in Pressure	853	P.S.I.			
H	Final Hydrostatic Mud	2000	P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Mins.	Press.
P 1 0	20
P 2 5	20
P 3 10	20
P 4 15	20
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 Inc.
of 3 mins. and a
final inc. of ____ Min.

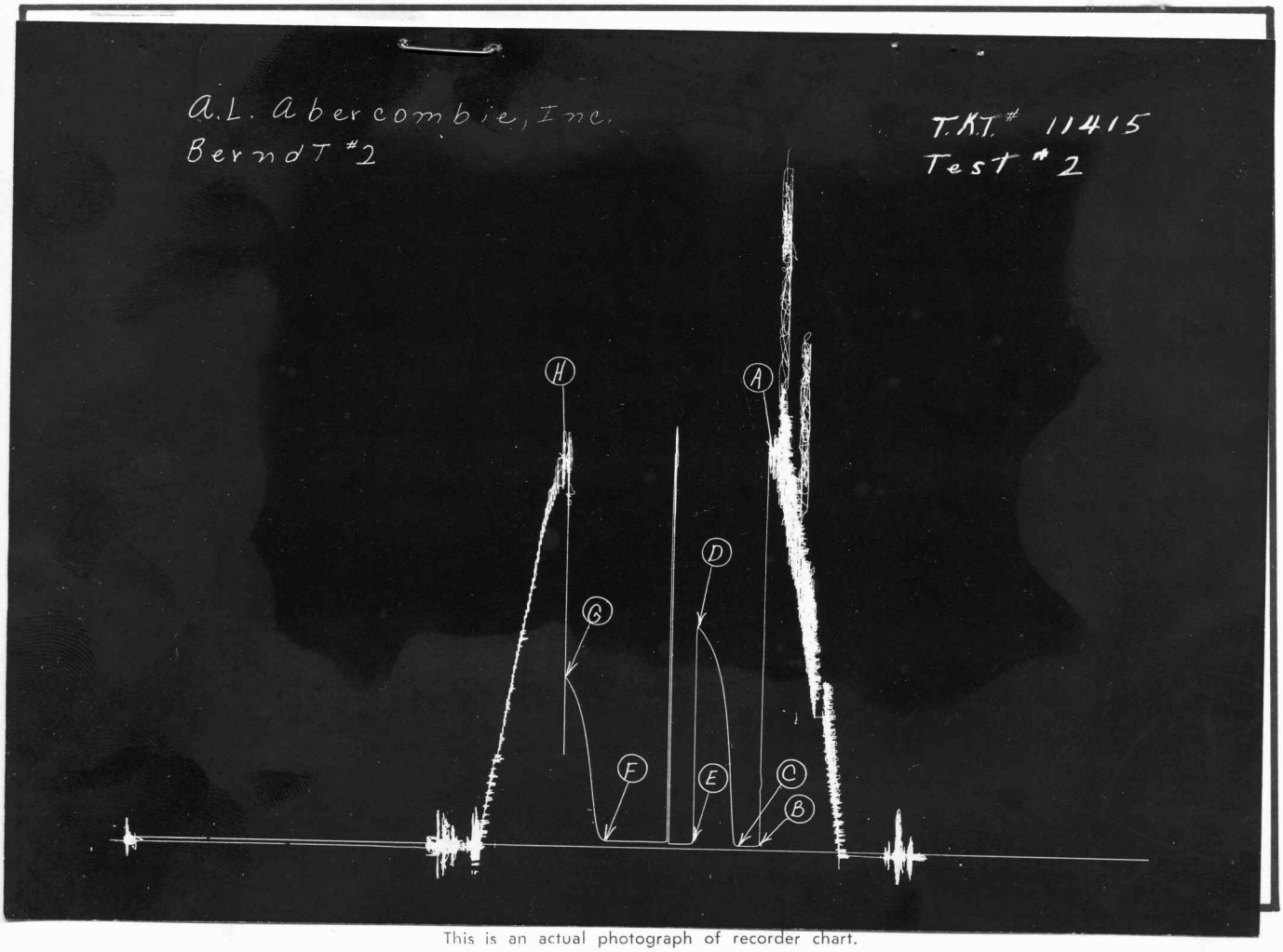
Point Minutes	Press.
0	20
3	104
6	420
9	655
12	802
15	889
18	968
21	1018
24	1055
27	1086
30	1109

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

Point Minutes	Press.
0	24
5	24
10	24
15	24
20	33
25	33
30	33
35	33
40	33
45	33
50	33
55	33
60	33

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

Point Minutes	Press.
0	33
3	45
6	112
9	249
12	418
15	557
18	665
21	735
24	789
27	827
30	853



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2010	2010	PSI
(B)	First Initial Flow Pressure	31	20	PSI
(C)	First Final Flow Pressure	31	20	PSI
(D)	Initial Closed-in Pressure	1153	1109	PSI
(E)	Second Initial Flow Pressure	41	24	PSI
(F)	Second Final Flow Pressure	41	33	PSI
(G)	Final Closed-in Pressure	883	853	PSI
(H)	Final Hydrostatic Mud	2000	2000	PSI

COMPANY A. L. Abercrombie Inc. LEASE AND WELL NO. Berndt # 2 SEC. 35 TWP. 2s RGE. 30w TEST NO. 2 DATE 10-14-68

35-25-30w

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

Company A. L. Abercrombie, Inc. Lease & Well No. Berndt # 2

Elevation 2817 Kelly Bushing Formation Kansas City Effective Pay Ft. Ticket No. 11416

Date 10-15-68 Sec. 35 Twp. 2s Range 30w County Decatur State Kansas

Test Approved by Jack K. Wharton Western Representative Dean Blagrave

Formation Test No. 3 O.K. x Misrun Interval Tested From 3889' to 4010' Total Depth 4010'

Size Main Hole 6 1/4 Rat Hole Conv. B.T. x Damaged Yes x No Conv. x B.T. Damaged Yes x No

Packer Depth 3884 Ft. Size 5 1/2 Packer Depth 3889 Ft. Size 5 1/2

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

Packer Depth Ft. Size

Tool Size 4 1/2" OD Tool Jt. Size 3 1/2" IF Anchor Length 121 Ft. Size 4 1/2" OD

RECORDERS Depth 3905 Ft. Clock No. 6895 Depth 4007 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 8:58 AM

Tool Open I.F.P. From 9:00A M. to 9:15A M. Hr. 15 Min. From (B) 56 P.S.I. To (C) 56 P.S.I.

Tool Closed I.C.I.P. From 9:15 M. to 9:45A M. Hr. 30 Min. (D) 675 P.S.I.

Tool Open F.F.P. From 9:45 M. to 10:20 AM. Hr. 35 Min. From (E) 58 P.S.I. To (F) 62 P.S.I.

Tool Closed F.C.I.P. From 10:20M. to 10:50A M. Hr. 30 Min. (G) 426 P.S.I.

Initial Hydrostatic Pressure (A) 2020 P.S.I. Final Hydrostatic Pressure (H) 2004 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 15 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 10 feet mud

Reversed Out Yes x No Mud Type chem Viscosity 51 Weight 9.8 Water Loss 8.2 cc. Maximum Temp. 130 °F

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

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

Length Drill Pipe ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe 1272 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 139 ft.

Remarks Flushed at 15 minutes

WESTERN TESTING CO., INC.
Pressure Data

Date 10-15-68 Test Ticket No. 11416

Recorder No. 2606 Capacity 4150 Location 3905 Ft.

Clock No. 6895 Elevation 2817 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2020 P.S.I.	Opened Tool	8:58A M	
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	56 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	675 P.S.I.	Second Flow Pressure	35 Mins.	35 Mins.
E Second Initial Flow Pressure	58 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	62 P.S.I.			
G Final Closed-in Pressure	426 P.S.I.			
H Final Hydrostatic Mud	2004 P.S.I.			

PRESSURE BREAKDOWN

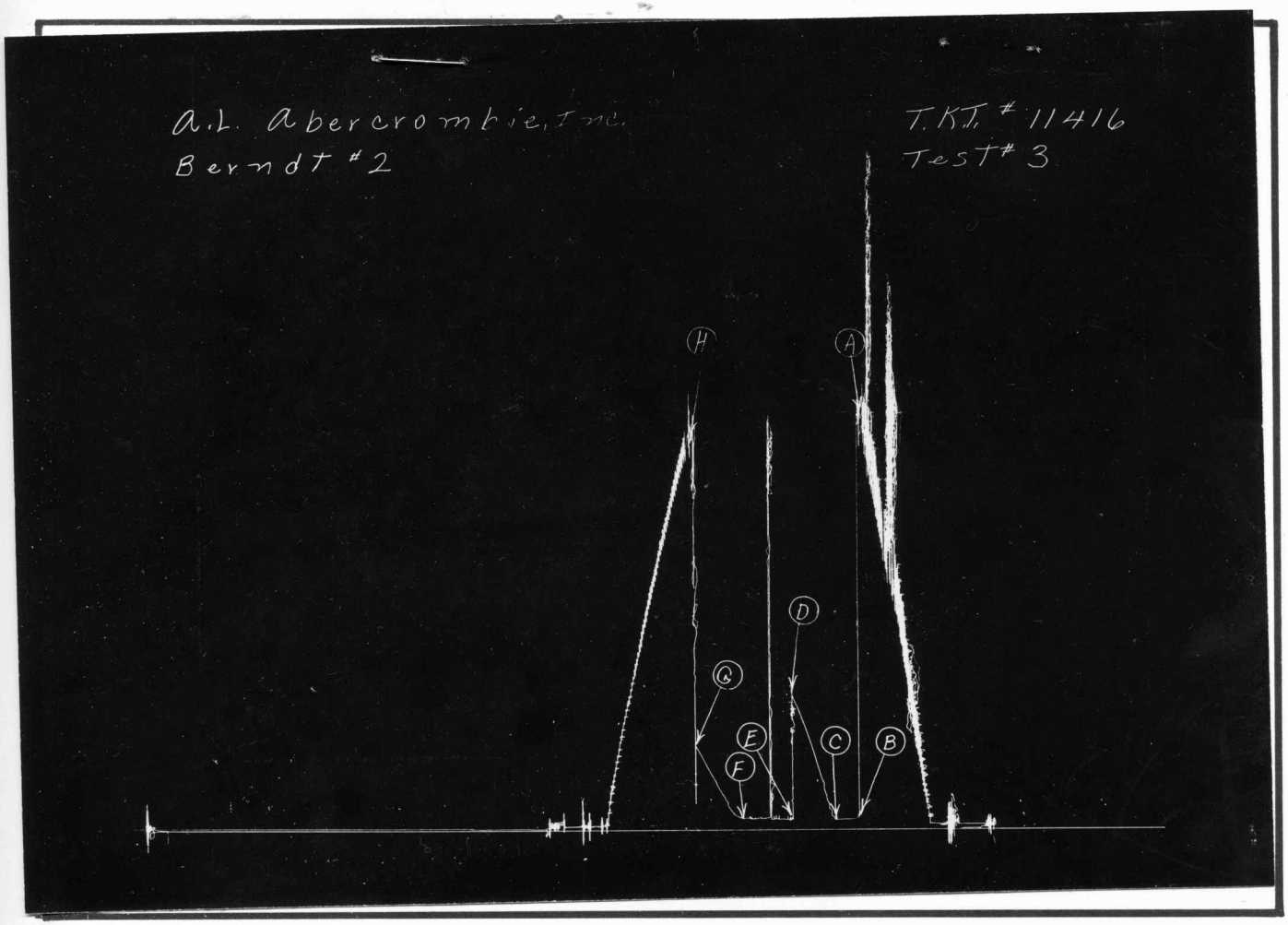
First Flow Press.
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

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

Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of ____ Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	56	0	56	0	58	0	62
P 2 5	56	3	72	5	58	3	66
P 3 10	56	6	145	10	58	6	79
P 4 15	56	9	245	15	58	9	110
P 5		12	316	20	62	12	158
P 6		15	393	25	62	15	191
P 7		18	466	30	62	18	235
P 8		21	512	35	62	21	276
P 9		24	570			24	320
P10		27	609			27	357
P11		30	675			30	399
P12					3	32	426
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	2020	2020	PSI
(B)	First Initial Flow Pressure	52	56	PSI
(C)	First Final Flow Pressure	52	56	PSI
(D)	Initial Closed-in Pressure	675	675	PSI
(E)	Second Initial Flow Pressure	52	58	PSI
(F)	Second Final Flow Pressure	52	62	PSI
(G)	Final Closed-in Pressure	426	426	PSI
(H)	Final Hydrostatic Mud	2000	2004	PSI

COMPANY A. L. Abercrombie, Inc. LEASE AND WELL NO. Berndt # 2 SEC. 35 TWP. 2s RGE. 30w TEST NO. 3 DATE 10-15-68