WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie Inc. Lease & Well No. Massier A #3

Elevation 2221 Kelly Bushing Formation Kansas City Effective Pay Ft. Ticket No. 24010

Date 2-25-75 Sec. 14 Twp. 14S Range 22W County Trego State Kansas

Test Approved by Charles Johnson Western Representative Gerrell Veatch

Formation Test No. 1 O.K. x Misrun - Interval Tested From 3690' to 3707' Total Depth 3707'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. x Damaged - Yes x No Conv. x B.T. - Damaged - Yes x No

Top Packer Depth 3685 Ft. Size 6 3/4 Bottom Packer Depth 3690 Ft. Size 6 3/4

Straddle No Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 17 Ft. Size 5½OD Surface Choke Size 3/8 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3701 Ft. Clock No. 10434 Depth 3704 Ft. Clock No. 6774

Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4500 No. 3085 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:00 A.M.

Tool Open I.F.P. From 11:05 A.M. to 11:35 A.M. - Hr. 30 Min. From (B) 10 P.S.I. To (C) 10 P.S.I.

Tool Closed I.C.I.P. From 11:35 A.M. to 12:05 P.M. - Hr. 30 Min (D) 13 P.S.I.

Tool Open F.F.P. From 12:05 P.M. to 12:35 P.M. - Hr. 30 Min. From (E) 11 P.S.I. To (F) 11 P.S.I.

Tool Closed F.C.I.P. From 12:35 P.M. to 1:05 P.M. - Hr. 30 Min. (G) 13 P.S.I.

Initial Hydrostatic Pressure (A) 2064 P.S.I. Final Hydrostatic Pressure (H) 2025 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Weak blow for 20 minutes

Did Well Flow - Yes X No Recovery Total Ft. 10' drilling mud

Reversed Out - Yes X No Mud Type Starch Viscosity 43 Weight 10.6 Water Loss 12.8 cc. Chlorides 102,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR AbercrombieDrilling Inc. Length Drill Pipe? 2460 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4½FH In.

Length Weight Pipe 1210 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4"FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 37 Ft.

Remarks:

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-25-75 Test Ticket No. 24010

Recorder No. 3085 Capacity 4500 Location 3704 Ft.

Clock No. 6774 Elevation 2221 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2064 P.S.I.	Open Tool	11:00 A.M	
B First Initial Flow Pressure	10 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	10 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	13 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	11 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	11 P.S.I.			
G Final Closed-in Pressure	13 P.S.I.			
H Final Hydrostatic Mud	2025 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	10
P 2 5	10
P 3 10	10
P 4 15	10
P 5 20	10
P 6 25	10
P 7 30	10
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 0 Min.

Point Minutes	Press.
0	10
3	10
6	10
9	10
12	11
15	11
18	11
21	12
27	12
30	13
33	13

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

Point Minutes	Press.
0	11
5	11
10	11
15	11
20	11
25	11
30	11
35	
40	
45	
50	
55	
60	

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

Point Minutes	Press.
0	11
3	11
6	11
9	11
12	12
15	12
18	12
21	12
24	13
27	13
30	13
33	

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This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2110	2064	PSI
(B)	First Initial Flow Pressure	10	10	PSI
(C)	First Final Flow Pressure	14	10	PSI
(D)	Initial Closed-in Pressure	21	13	PSI
(E)	Second Initial Flow Pressure	14	11	PSI
(F)	Second Final Flow Pressure	14	11	PSI
(G)	Final Closed-in Pressure	18	13	PSI
(H)	Final Hydrostatic Mud	2100	2025	PSI

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Massier A #3 SEC. 14 TWP. 14S RGE. 22W TEST NO. #1 DATE 2-25-75

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Massier A-3

Elevation 2221 Kelly Bush. Formation Cherokee Sand Effective Pay - Ft. Ticket No. 24011

Date 2-27-75 Sec. 14 Twp. 14S Range 22W County Trego State Kansas

Test Approved by Jerry A. Langrehr Western Representative John M. Sporing

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4070' to 4112' Total Depth 4112'

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

Top Packer Depth 4065 Ft. Size 6 3/4 Bottom Packer Depth 4070 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 42 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4104 Ft. Clock No. 10434 Depth 4107 Ft. Clock No. 6774

Top Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside Bottom Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 9:52 P M

Tool Open I.F.P. From 9:55P M. to 10:25P M. - Hr. 30 Min. From (B) 29 P.S.I. To (C) 26 P.S.I.

Tool Closed I.C.I.P. From 10:25P M. to 10:55P M. - Hr. 30 Min (D) 29 P.S.I.

Tool Open F.F.P. From 10:55P M. to 11:25P M. - Hr. 30 Min. From (E) 24 P.S.I. To (F) 28 P.S.I.

Tool Closed F.C.I.P. From 11:25P M. to 11:55P M. - Hr. 30 Min. (G) 38 P.S.I.

Initial Hydrostatic Pressure (A) 2324 P.S.I. Final Hydrostatic Pressure (H) 2292 P.S.I. Maximum Temp. 116

INFORMATION

BLOW Weak, died in 30 minutes.

Did Well Flow - Yes X No Recovery Total Ft. 15' drilling mud.

Reversed Out - Yes X No Mud Type Starch Viscosity 41 Weight 10.4 Water Loss 16.4 cc. Chlorides 100,000PPM

EXTRA EQUIPMENT: Type Circ. Sub. plug Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie Drlg. Inc. #1 Length Drill Pipe? 2902 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4½FH In.

Length Weight Pipe 1210 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 62 Ft.

Remarks: Flushed tool on final flow period. Read outside recorder.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-27-75 Test Ticket No. 24011

Recorder No. 3085 Capacity 4500 Location 4107 Ft.

Clock No. 6774 Elevation 2221 Kelly Bushing Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2324 P.S.I.	Open Tool	9:25 P M	
B First Initial Flow Pressure	29 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.	30 Mins.
D Initial Closed-in Pressure	29 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	24 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	28 P.S.I.			
G Final Closed-in Pressure	38 P.S.I.			
H Final Hydrostatic Mud	2292 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	29
P 2 5	29
P 3 10	29
P 4 15	29
P 5 20	26
P 6 25	26
P 7 30	20
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 0 Min.

Point Minutes	Press.
0	26
3	26
6	26
9	26
12	26
15	26
18	27
21	28
24	28
27	29
30	29

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

Point Minutes	Press.
0	24
5	24
10	flushed tool
15	32
20	30
25	29
30	28

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

Point Minutes	Press.
0	28
3	28
6	28
9	31
12	32
15	33
18	33
21	34
24	36
27	37
30	38

WTC - 4

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2458	2324	PSI
(B)	First Initial Flow Pressure	40	29	PSI
(C)	First Final Flow Pressure	40	26	PSI
(D)	Initial Closed-in Pressure	40	29	PSI
(E)	Second Initial Flow Pressure	40	24	PSI
(F)	Second Final Flow Pressure	40	28	PSI
(G)	Final Closed-in Pressure	40	38	PSI
(H)	Final Hydrostatic Mud	2448	2292	PSI

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Massier A-3 SEC. 14 TWP. 14S RGE. 22W TEST NO. 2 DATE 2-27-75

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A. L. Abercrombie, Inc. Lease & Well No. Massier A-3

Elevation 2221 Kelly Bush. Formation Cherokee Sand Effective Pay - Ft. Ticket No. 24012

Date 2-28-75 Sec. 14 Twp. 14S Range 22W County Trego State Kansas

Test Approved by Jerry Langrehr Western Representative John M. Sporing

Formation Test No. 3 O.K. - Misrun X Interval Tested From 4104' to 4120' Total Depth 4120'

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

Top Packer Depth 4099 Ft. Size 6 3/4 Bottom Packer Depth 4104 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 16 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4113 Ft. Clock No. 10434 Depth 4116 Ft. Clock No. 6774

Top Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside Bottom Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 8:50 A M No pressures available.

Tool Open I.F.P. From 8:53A M. to - M. - Hr. - Min. From (B) - P.S.I. To (C) - P.S.I.

Tool Closed I.C.I.P. From - M. to - M. - Hr. - Min (D) - P.S.I.

Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.

Initial Hydrostatic Pressure (A) 2276 P.S.I. Final Hydrostatic Pressure (H) 2235 P.S.I. Maximum Temp. 116

INFORMATION

BLOW Misrun - Packer failure.

Did Well Flow - Yes X No Recovery Total Ft. -

Reversed Out - Yes X No Mud Type Starch Viscosity 41 Weight 10.4 Water Loss 16.4 cc. Chlorides 100,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. plug Safety Joint No Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie Drilling Inc. Length Drill Pipe? - Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4½FH In.

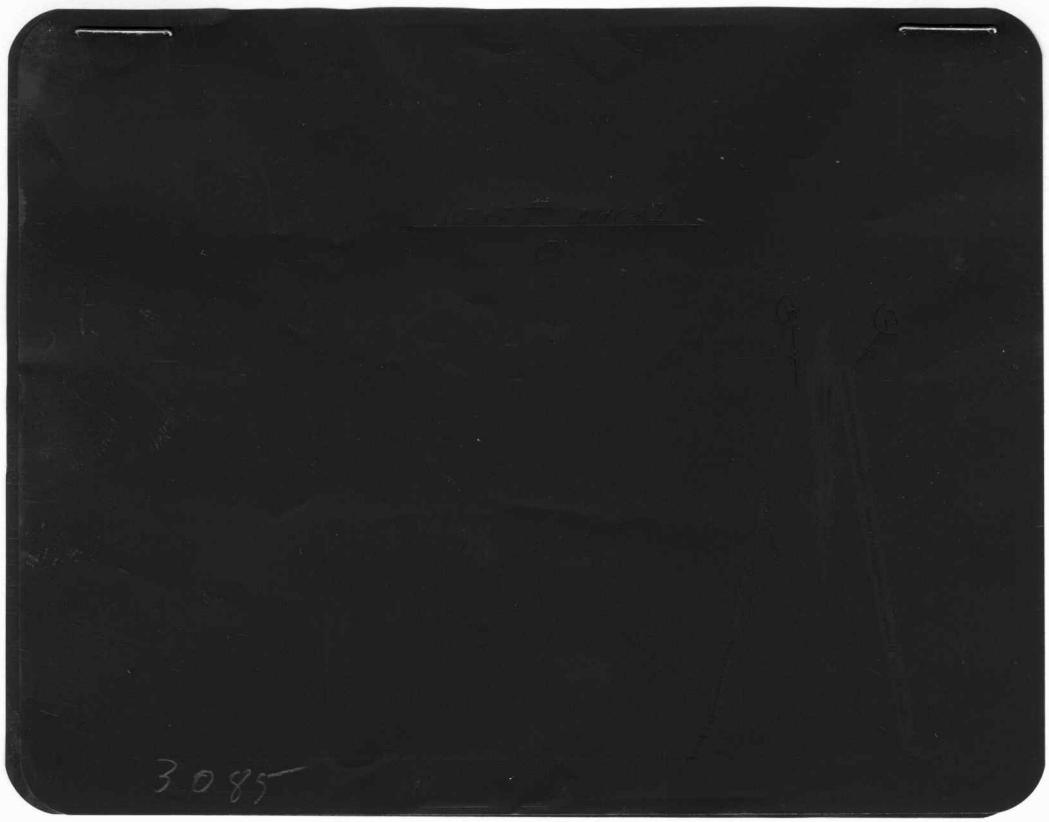
Length Weight Pipe 1210 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 36 Ft.

Remarks: Misrun - Packer failure. Read outside recorder.

FORM WTC 3

COMPANY A.L. Abercrombie Inc. LEASE AND WELL NO. Massier A-3 SEC. 14 TWP. 14S RGE. 22W TEST NO. 3 DATE 2-28-75



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	-	2276	PSI
(B)	First Initial Flow Pressure	No readings available		PSI
(C)	First Final Flow Pressure	" "	"	PSI
(D)	Initial Closed-in Pressure	" "	"	PSI
(E)	Second Initial Flow Pressure	" "	"	PSI
(F)	Second Final Flow Pressure	" "	"	PSI
(G)	Final Closed-in Pressure	" "	"	PSI
(H)	Final Hydrostatic Mud	-	2235	PSI

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Massier A #3

Elevation 2221 Kelly Bushing Formation Cherokee Sand Effective Pay Ft. Ticket No. 24013

Date 2-28-75 Sec. 14 Twp. 14S Range 22W County Trego State Kansas

Test Approved by Jerry Langrehr Western Representative John M. Sporing

Formation Test No. #4 O.K. X Misrun - Interval Tested From 4070' to 4120' Total Depth 4120'

Size Main Hole 7 7/8 at Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4065 Ft. Size 6 3/4 Bottom Packer Depth 4070 Ft. Size 6 3/4

Straddle No Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 50 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4112 Ft. Clock No. 10434 Depth 4115 Ft. Clock No. 6774

Top Make Kuster Cap. 4000 No. 3351 ~~Outside~~ Inside Bottom Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ Inside Depth - Ft. Rec. No. - Clock No. - Outside Inside

Time Set Packer 12:00 P. M

Tool Open I.F.P. From 12:05P M. to 12:35P M. - Hr. 30 Min. From (B) 97 P.S.I. To (C) 100 P.S.I.

Tool Closed I.C.I.P. From 12:35P M. to 1:05p M. - Hr. 30 Min (D) 336 P.S.I.

Tool Open F.F.P. From 1:05P M. to 1:50P M. - Hr. 45 Min. From (E) 104 P.S.I. To (F) 98 P.S.I.

Tool Closed F.C.I.P. From 1:50P M. to 2:20P M. - Hr. 30 Min. (G) 267 P.S.I.

Initial Hydrostatic Pressure (A) 2289 P.S.I. Final Hydrostatic Pressure (H) 2251 P.S.I. Maximum Temp. 119

INFORMATION

BLOW Weak, died in fifty minutes or twenty minutes on second flow

Did Well Flow - Yes X No Recovery Total Ft. 70' watery mud

Reversed Out - Yes X No Mud Type starch Viscosity 41 Weight 10.4 Water Loss 16.4 cc. Chlorides 100,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Plug Safety Joint No Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie Drilling Inc. Length Drill Pipe? 2910 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 4½FH In.

Length Weight Pipe 1210 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 70 Ft.

Remarks: Slid tool 4' to bottom

Flushed tool in initial and final flow periods.

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-28-75 Test Ticket No. 24013

Recorder No. 3085 Capacity 4500 Location 4115 Ft.

Clock No. 6774 Elevation 2221 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2289 P.S.I.	Open Tool	12:00P M	
B First Initial Flow Pressure	97 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	100 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	336 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	104 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	98 P.S.I.			
G Final Closed-in Pressure	267 P.S.I.			
H Final Hydrostatic Mud	2251 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	97
P 2 5	98
P 3 10	98
P 4 15	Flushed tool
P 5 20	100
P 6 25	Flushed tool 102
P 7 30	100
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 0 Min.

Point Minutes	Press.
0	100
3	100
6	103
9	124
12	148
15	174
18	202
21	232
24	258
27	286
30	336

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	104
5	Flushed tool 104
10	103
15	100
20	100
25	100
30	99
35	99
40	98
45	98

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

Point Minutes	Press.
0	98
3	109
6	123
9	139
12	153
15	170
18	186
21	204
24	226
27	245
30	267

WTC - 4

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Massier A #3 SEC. 14 TWP. 14S RGE. 22W TEST NO. #4 DATE 2-28-75

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2309	2289	PSI
(B)	First Initial Flow Pressure	40	97	PSI
(C)	First Final Flow Pressure	50	100	PSI
(D)	Initial Closed-in Pressure	351	336	PSI
(E)	Second Initial Flow Pressure	60	104	PSI
(F)	Second Final Flow Pressure	60	98	PSI
(G)	Final Closed-in Pressure	331	267	PSI
(H)	Final Hydrostatic Mud	2299	2251	PSI