WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Robertson #1

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24103

Date 3-29-75 Sec. 21 Twp. 5S Range 30W County Decatur State Kansas

Test Approved by Charles Johnson Western Representative Dennis Sporing

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3897' to 3943' Total Depth 3943'

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 3892 Ft. Size 6 3/4 Bottom Packer Depth 3897 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 46 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3935 Ft. Clock No. 6896 Depth 3938 Ft. Clock No. 6893

Top Make Kuster Cap. 4500 No. 3086 Inside ~~Outside~~ Bottom Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside

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

Time Set Packer 12:57 P M

Tool Open I.F.P. From 1:00P M. to 1:30P M. - Hr. 30 Min. From (B) 2 P.S.I. To (C) 21 P.S.I.

Tool Closed I.C.I.P. From 1:30P M. to 2:15P M. - Hr. 45 Min (D) 1292 P.S.I.

Tool Open F.F.P. From 2:15 P M. to 2:45P M. - Hr. 30 Min. From (E) 27 P.S.I. To (F) 28 P.S.I.

Tool Closed F.C.I.P. From 2:45P M. to 3:30P M. - Hr. 45 Min. (G) 1265 P.S.I.

Initial Hydrostatic Pressure (A) 2016 P.S.I. Final Hydrostatic Pressure (H) 1935 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Weak blow, died 30 minutes after tool opened.

Did Well Flow - Yes X No Recovery Total Ft. 30' drilling mud.

Reversed Out - Yes X No Mud Type Chemical Viscosity 44 Weight 9.4 Water Loss 10.8 cc. Chlorides 1,800 PPM

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 Drilling Inc. Length Drill Pipe? 3049 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ In.

Length Weight Pipe 828 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4½ In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 66 Ft.

Remarks:

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 3-29-75 Test Ticket No. 24103

Recorder No. 3086 Capacity 4500 Location 3935 Ft.

Clock No. 6896 Elevation - Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2016 P.S.I.	Open Tool	12:57 P M	
B First Initial Flow Pressure	2 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	21 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	1292 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	27 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	28 P.S.I.			
G Final Closed-in Pressure	1265 P.S.I.			
H Final Hydrostatic Mud	1935 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	2
P 2 5	2
P 3 10	4
P 4 15	7
P 5 20	9
P 6 25	17
P 7 30	21
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

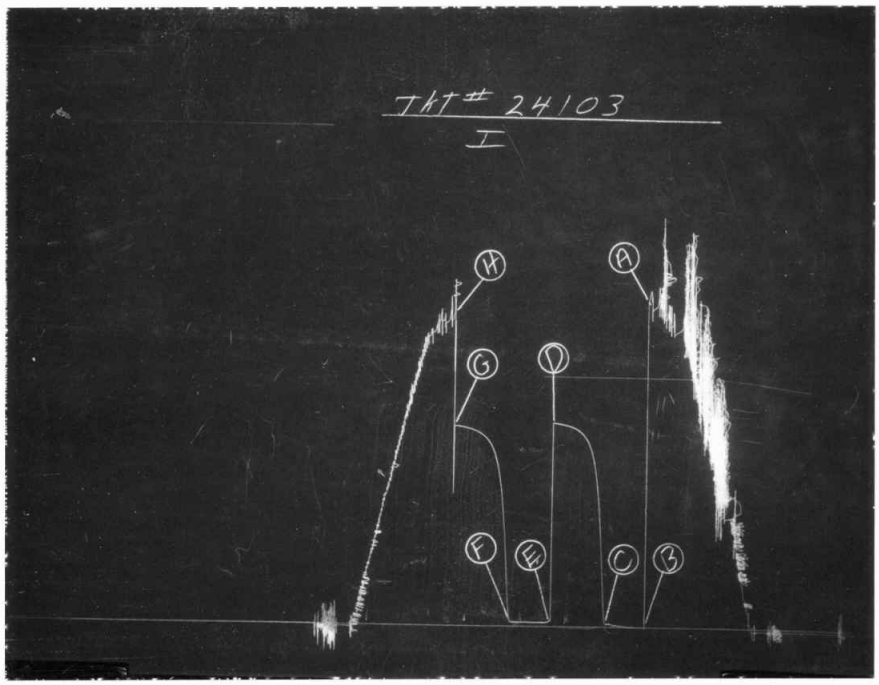
Point Minutes	Press.
0	21
3	455
6	811
9	1000
12	1116
15	1174
18	1211
21	1237
24	1254
27	1265
30	1273
33	1280
36	1285
39	1288
42	1292

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

Point Minutes	Press.
0	27
5	27
10	27
15	27
20	28
25	28
30	28

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	28
3	147
6	526
9	807
12	1000
15	1095
18	1152
21	1185
24	1209
27	1224
30	1236
33	1246
36	1253
39	1259
42	1262
45	1265



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2004	2016	PSI
(B)	First Initial Flow Pressure	0	2	PSI
(C)	First Final Flow Pressure	11	21	PSI
(D)	Initial Closed-in Pressure	1287	1292	PSI
(E)	Second Initial Flow Pressure	23	27	PSI
(F)	Second Final Flow Pressure	23	28	PSI
(G)	Final Closed-in Pressure	1276	1265	PSI
(H)	Final Hydrostatic Mud	1993	1935	PSI

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Robertson #1 SEC. 21 TWP. 5S RGE. 30W TEST NO. 1 DATE 3-29-75

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Robertson #1

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24104

Date 3-30-75 Sec. 21 Twp. 5S Range 30W County Decatur State Kansas

Test Approved by Charles Johnson Western Representative Dennis Sporing

Formation Test No. 2 O.K. X Misrun - Interval Tested From 3943' to 3982' Total Depth 3982'

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 3938 Ft. Size 6 3/4 Bottom Packer Depth 3943 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 39 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3975 Ft. Clock No. 6896 Depth 3978 Ft. Clock No. 6893

Top Make Kuster Cap. 4500 No. 3086 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside

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

Time Set Packer 4:27 A M

Tool Open I.F.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. From (B) 51 P.S.I. To (C) 464 P.S.I.

Tool Closed I.C.I.P. From 5:00A M. to 5:45A M. - Hr. 45 Min (D) 1334 P.S.I.

Tool Open F.F.P. From 5:45A M. to 6:30A M. - Hr. 45 Min. From (E) 488 P.S.I. To (F) 643 P.S.I.

Tool Closed F.C.I.P. From 6:30A M. to 7:15A M. - Hr. 45 Min. (G) 1332 P.S.I.

Initial Hydrostatic Pressure (A) 2078 P.S.I. Final Hydrostatic Pressure (H) 1979 P.S.I. Maximum Temp. 127

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 185' slightly oil spotted mud, 1180' salt water.

Reversed Out X Yes - No Mud Type Chemical Viscosity 45 Weight 9.8 Water Loss 13.8 cc. Chlorides 2,000 PPM

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 Drilling Inc. Length Drill Pipe? 3095 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ In.

Length Weight Pipe 828 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4½ In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 59 Ft.

Remarks:

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

ate 3-30-75 Test Ticket No. 24104

corder No. 3086 Capacity 4500 Location 3945 Ft.

ock No. 6896 Elevation - Well Temperature 127 °F

int	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2078 P.S.I.	Open Tool	4:27 A M	
First Initial Flow Pressure	51 P.S.I.	First Flow Pressure	30 Mins.	32 Mins.
First Final Flow Pressure	464 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
Initial Closed-in Pressure	1334 P.S.I.	Second Flow Pressure	45 Mins.	30 Mins.
Second Initial Flow Pressure	488 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
Second Final Flow Pressure	643 P.S.I.			
Final Closed-in Pressure	1332 P.S.I.			
Final Hydrostatic Mud	1979 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 2 Min.

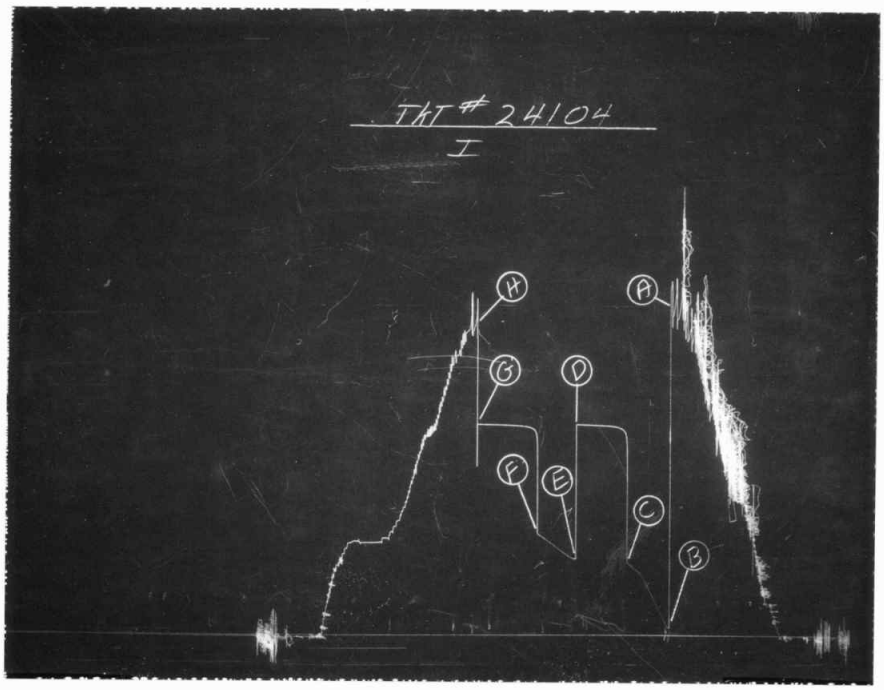
Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

int ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	51	0	464	0	488	0	643
2 5	109	3	1227	5	500	3	1290
3 10	191	6	1303	10	528	6	1310
4 15	275	9	1316	15	559	9	1317
5 20	353	12	1322	20	588	12	1321
6 25	408	15	1325	25	616	15	1323
7 30	444	18	1328	30	643	18	1325
8 32	464	21	1329			21	1326
9		24	1330			24	1327
0		27	1331			27	1328
1		30	1332			30	1329
2		33	1332			33	1329
3		36	1333			36	1330
4		39	1333			39	1331
5		42	1334			42	1331
6						45	1332
7							
8							
9							
0							

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Robertson #1 SEC. 21 TWP. 5S RGE. 30W TEST NO. 2 DATE 3-30-75



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2027	2078	PSI
(B)	First Initial Flow Pressure	35	51	PSI
(C)	First Final Flow Pressure	473	464	PSI
(D)	Initial Closed-in Pressure	1334	1334	PSI
(E)	Second Initial Flow Pressure	485	488	PSI
(F)	Second Final Flow Pressure	636	643	PSI
(G)	Final Closed-in Pressure	1322	1332	PSI
(H)	Final Hydrostatic Mud	2016	1979	PSI

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Robertson #1

Elevation 2886 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 24105

Date 3-30-75 Sec. 21 Twp. 5S Range 30S County Decatur State Kansas

Test Approved by Charles Johnson Western Representative Dennis Sporing

Formation Test No. 3 O.K. X Misrun - Interval Tested From 3991' to 4036' Total Depth 4036'

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 3986 Ft. Size 6 3/4 Bottom Packer Depth 3991 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 45 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4028 Ft. Clock No. 6893 Depth 4031 Ft. Clock No. 6896

Top Make Kuster Cap. 4500 No. 3086 Inside ~~=Outside~~ Bottom Make Kuster Cap. 4200 No. 1558 ~~=Inside~~ Outside

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

Time Set Packer 8:27 P.M

Tool Open I.F.P. From 8:30P M. to 9:00P M. - Hr. 30 Min. From (B) 40 P.S.I. To (C) 232 P.S.I.

Tool Closed I.C.I.P. From 9:00PM. to 9:45P M. - Hr. 45 Min (D) 1352 P.S.I.

Tool Open F.F.P. From 9:45P M. to 10:30P M. - Hr. 45 Min. From (E) 256 P.S.I. To (F) 384 P.S.I.

Tool Closed F.C.I.P. From 10:30M. to 11:15P M. - Hr. 45 Min. (G) 1346 P.S.I.

Initial Hydrostatic Pressure (A) 2080 P.S.I. Final Hydrostatic Pressure (H) 2009 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Strong throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 775' free oil, 33 gravity, 180' of oil cut mud.

Reversed Out - Yes X No Mud Type Chem Viscosity 42 Weight 9.7 Water Loss 12.6 cc. Chlorides 1,800 PPM

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. Length Drill Pipe? 3143 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ In.

Length Weight Pipe 828 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4½ In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 65 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 3-30-75 Test Ticket No. 24105

Recorder No. 3086 Capacity 4500 Location 4028 Ft.

Clock No. 6893 Elevation 2086 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2080 P.S.I.		Open Tool	8:27P. M	
B	First Initial Flow Pressure	40 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	232 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1352 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	256 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	384 P.S.I.				
G	Final Closed-in Pressure	1346 P.S.I.				
H	Final Hydrostatic Mud	2009 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	40
P 2 5	54
P 3 10	99
P 4 15	135
P 5 20	166
P 6 25	197
P 7 30	232
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

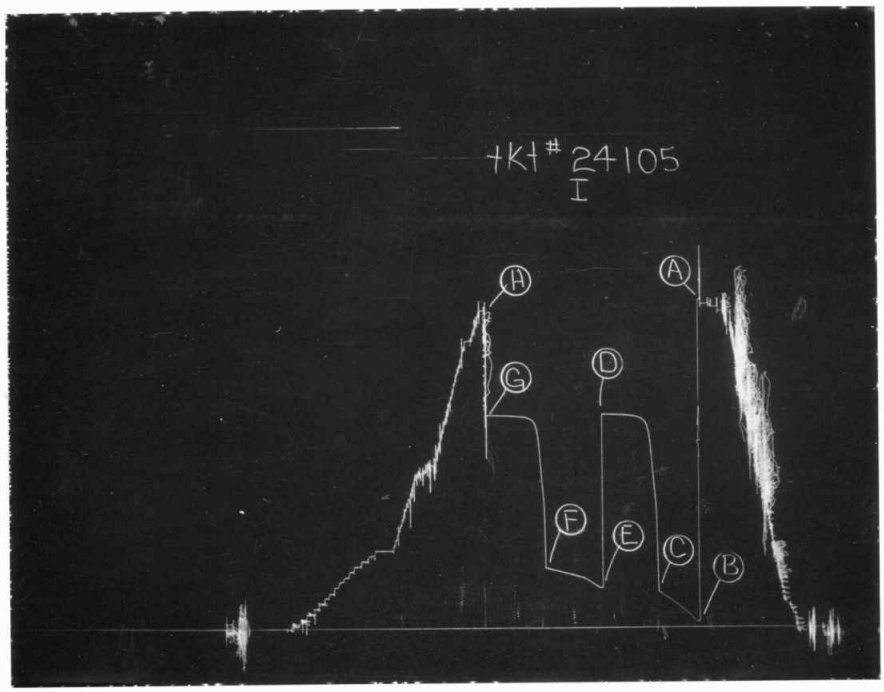
Point Minutes	Press.
0	232
3	930
6	1181
9	1295
12	1321
15	1332
18	1337
21	1342
24	1344
27	1345
30	1346
33	1347
36	1348
39	1350
42	1351
45	1352

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

Point Minutes	Press.
0	256
5	270
10	299
15	322
20	334
25	344
30	355
35	365
40	377
45	384

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	384
3	981
6	1220
9	1307
12	1323
15	1330
18	1335
21	1337
24	1339
27	1340
30	1341
33	1342
36	1343
39	1344
42	1345
45	1346



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2027	2080	PSI
(B)	First Initial Flow Pressure	35	40	PSI
(C)	First Final Flow Pressure	236	232	PSI
(D)	Initial Closed-in Pressure	1357	1352	PSI
(E)	Second Initial Flow Pressure	248	256	PSI
(F)	Second Final Flow Pressure	379	384	PSI
(G)	Final Closed-in Pressure	1346	1346	PSI
(H)	Final Hydrostatic Mud	2016	2009	PSI

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Robertson #1 SEC. 21 TWP. 5S RGE. 30W TEST NO. 3 DATE 3-30-75

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Robertson #1

Elevation 2886 Kelly Bush. Formation Kansas City Effective Pay -- Ft. Ticket No. 24106

Date 3-31-75 Sec. 21 Twp. 5S Range 30W County Decatur State Kansas

Test Approved by Charles Johnson Western Representative Dennis Sporing

Formation Test No. 4 O.K. X Misrun - Interval Tested From 4058' to 4096' Total Depth 4096'

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

Top Packer Depth 4053 Ft. Size 6 3/4 Bottom Packer Depth 4058 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 38 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4088 Ft. Clock No. 6896 Depth 4091 Ft. Clock No. 6893

Top Make Kuster Cap. 4500 No. 3086 Inside ~~Outside~~ Bottom Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside

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

Time Set Packer 1:27 P. M

Tool Open I.F.P. From 1:30P M. to 2:00P M. - Hr. 30 Min. From (B) 33 P.S.I. To (C) 26 P.S.I.

Tool Closed I.C.I.P. From 2:00PM. to 2:45P M. - Hr. 45 Min (D) 40 P.S.I.

Tool Open F.F.P. From 2:45P M. to 3:15P M. - Hr. 30 Min. From (E) 28 P.S.I. To (F) 28 P.S.I.

Tool Closed F.C.I.P. From 3:15PM. to 4:00 M. - Hr. 45 Min. (G) 28 P.S.I.

Initial Hydrostatic Pressure (A) 2108 P.S.I. Final Hydrostatic Pressure (H) 2085 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Weak, died 10 minutes after tool opened.

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

Reversed Out - Yes X No Mud Type Chem Viscosity 42 Weight 9.9 Water Loss 12.8 cc. Chlorides 1,800 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? 3143 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ In.

Length Weight Pipe 828 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4½ In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 58 Ft.

Remarks:

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 3-31-75

Test Ticket No. 24106

Recorder No. 3086 Capacity 4500 Location 4085 F

Clock No. 6896 Elevation 2886 Kelly Bushing Well Temperature 118 °

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2108 P.S.I.	Open Tool	1:27 P. M	
B	First Initial Flow Pressure	33 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	26 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	40 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	28 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	28 P.S.I.			
G	Final Closed-in Pressure	28 P.S.I.			
H	Final Hydrostatic Mud	2085 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	33
P 2	5	26
P 3	10	26
P 4	15	26
P 5	20	26
P 6	25	26
P 7	30	26
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In

Breakdown: 15 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	26
21	26
24	28
27	29
30	30
33	31
36	33
39	36
42	38
45	40

Second Flow Pressure

Breakdown: 6 Inc.

of 5 mins. and a

final inc. of 0 Min.

Point Minutes	Press.
0	28
5	28
10	28
15	28
20	28
25	28
30	28

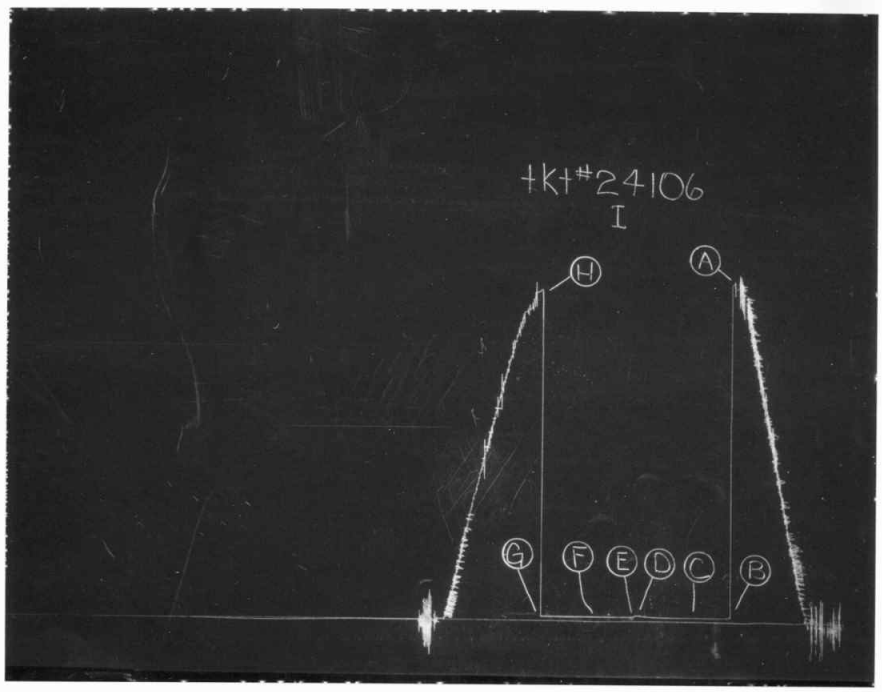
Final Shut-In

Breakdown: 15 Inc.

of 3 mins. and a

final inc. of 0 Min.

Point Minutes	Press.
0	28
3	28
6	28
9	28
12	28
15	28
18	28
21	28
24	28
27	28
30	28
33	28
36	28
39	28
42	28
45	28



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2119	2108	PSI
(B)	First Initial Flow Pressure	35	33	PSI
(C)	First Final Flow Pressure	35	26	PSI
(D)	Initial Closed-in Pressure	47	40	PSI
(E)	Second Initial Flow Pressure	35	28	PSI
(F)	Second Final Flow Pressure	35	28	PSI
(G)	Final Closed-in Pressure	35	28	PSI
(H)	Final Hydrostatic Mud	1810	2085	PSI

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Robertson #1 SEC. 21 TWP. 5S RGE. 30 TEST NO. 4 DATE 3-31-75

WESTERN TESTERS

P. O. BOX 1599
WICHITA, KANSAS 67201

Company A.L. Abercrombie, Inc. Lease & Well No. Robertson #1

Elevation 2886 Kelly Bush Formation Kansas City Effective Pay - Ft. Ticket No. 24107

Date 4-2-75 Sec. 21 Twp. 5S Range 30W County Decatur State Kansas

Test Approved by Charles Johnson Western Representative Dennis Sporing

Formation Test No. 5 O.K. X Misrun - Interval Tested From 4095' to 4123' Total Depth 4171'

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

Top Packer Depth 4095 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -

Straddle Yes Conv. X B.T. - Damaged - Yes X No Packer Depth 4123 Ft. Size 6 3/4

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 28 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4100 Ft. Clock No. 6896 Depth 4103 Ft. Clock No. 6893

Top Make Kuster Cap. 4500 No. 3086 ~~Outside~~ Inside Bottom Make Kuster Cap. 4200 No. 1558 Inside Outside

Below Straddle: Depth 4169 Rec. No. 111 Clock No. 89 ~~Inside~~ Outside Depth 4170 Ft. Rec. No. 112 Clock No. 99 Inside Outside

Time Set Packer 9:12 A M

Tool Open I.F.P. From 9:15A M. to 9:45A M. - Hr. 30 Min. From (B) 24 P.S.I. To (C) 28 P.S.I.

Tool Closed I.C.I.P. From 9:45A M. to 10:30A M. - Hr. 45 Min (D) 1300 P.S.I.

Tool Open F.F.P. From 10:30A M. to 11:15A M. - Hr. 45 Min. From (E) 62 P.S.I. To (F) 58 P.S.I.

Tool Closed F.C.I.P. From 11:15A M. to 12:00P M. - Hr. 45 Min. (G) 1283 P.S.I.

Initial Hydrostatic Pressure (A) 2219 P.S.I. Final Hydrostatic Pressure (H) 2197 P.S.I. Maximum Temp. 119

INFORMATION

BLOW Fair to strong throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 80' of free oil, 39' gravity, 60' heavy oil cut mud.

Reversed Out - Yes X No Mud Type Chemical Viscosity 52 Weight 10.0 Water Loss 10.8 cc. Chlorides 2,600 PPM

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 Drilling Inc Length Drill Pipe? 3155 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ In.

Length Weight Pipe 828 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4½ In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 40 Ft. 48' tail pipe.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 4-2-75 Test Ticket No. 24107

Recorder No. 3086 Capacity 4500 Location 4100 Ft.

Clock No. 6896 Elevation 2886 Kelly Bushing Well Temperature 119 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2219 P.S.I.	Open Tool	9:12 A M	
B	First Initial Flow Pressure	24 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	28 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1300 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	62 P.S.I.	Final Closed-in Pressure	45 Mins.	51 Mins.
F	Second Final Flow Pressure	58 P.S.I.			
G	Final Closed-in Pressure	1283 P.S.I.			
H	Final Hydrostatic Mud	2197 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	24
P 2 5	19
P 3 10	19
P 4 15	19
P 5 20	20
P 6 25	24
P 7 30	28
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	28
3	595
6	1049
9	1158
12	1202
15	1227
18	1248
21	1260
24	1272
27	1278
30	1283
33	1290
36	1295
39	1297
42	1300

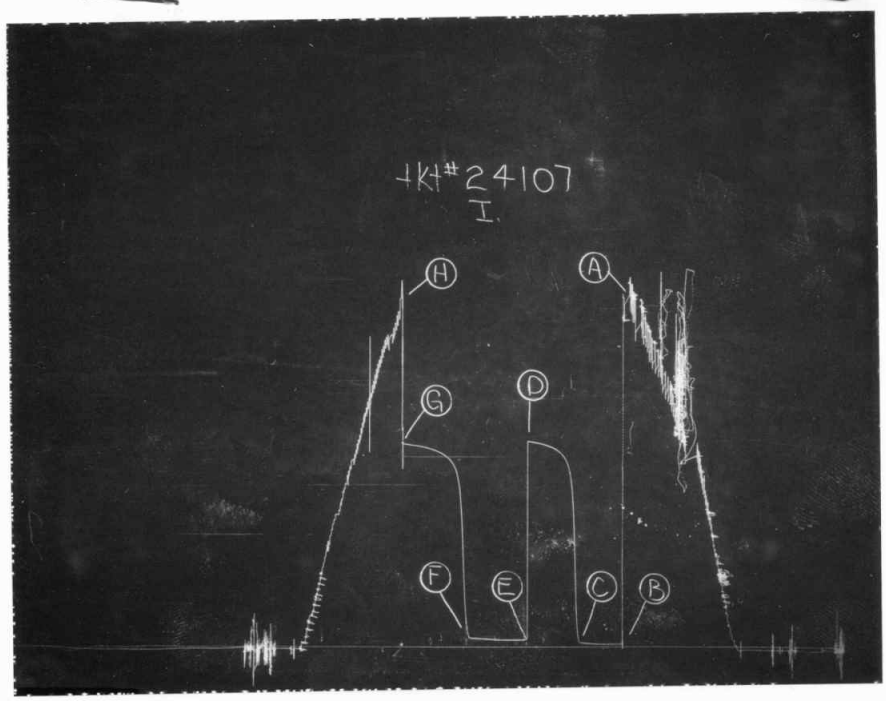
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	62
5	45
10	45
15	45
20	45
25	45
30	51
35	54
40	57
45	58

Final Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	58
3	213
6	713
9	1060
12	1142
15	1181
18	1202
21	1202
24	1232
27	1244
30	1251
33	1258
36	1265
39	1267
42	1272
45	1274
48	1279
51	1283

COMPANY A.L. Abercrombie, Inc. LEASE AND WELL NO. Robertson #1 SEC. 21 TWP. 5S RGE. 30W TEST NO. 5 DATE 4-2-75



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2153	2219	PSI
(B)	First Initial Flow Pressure	23	24	PSI
(C)	First Final Flow Pressure	35	28	PSI
(D)	Initial Closed-in Pressure	1311	1300	PSI
(E)	Second Initial Flow Pressure	47	62	PSI
(F)	Second Final Flow Pressure	59	58	PSI
(G)	Final Closed-in Pressure	1287	1283	PSI
(H)	Final Hydrostatic Mud	2141	2197	PSI