

PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks 67901

Formation Toronto Type Test Bottom Hole w/Sampler Date October 15, 1981

Anchor Length and Size 30' x 4 1/2" Total Depth 4300'

Packer Depths 4265' & 4270' Below Straddle

Equipment Run 2 Packers, Jars, SAFETY Joint, Circulating sub., Sample Chamber

Lengths: Tool 60' D. P. 3799' ID 3.8" Wt. P. ID D. C. 461' ID 2.25"

Mud Type Chemical Vls. 43 Wt. 8.8 Wtr. Loss 11.2 Cl. 4,000 ppm

Recorders:
Depth 4276' Make Kuster Cap. 6450 Ser. No. 6064 Inside
Depth 4298' Make Kuster Cap. 6800 Ser. No. 10217 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>7:45</u> P. M.	Initial Hydrostatic <u>2035</u> psi
Initial Flow <u>29</u> Min.	IFP <u>58</u> psi to <u>202</u> psi
Initial Shut-in <u>57</u> Min.	ISIP <u>875</u> psi
Final Flow <u>58</u> Min.	FFP <u>245</u> psi to <u>333</u> psi
Final Shut-in <u>114</u> Min.	FSIP <u>892</u> psi
Tool off Bottom @ <u>12:15</u> A. M.	Final Hydrostatic <u>2003</u> psi Temp. <u>102</u>

1660 FNL & 880 FNL
API 15-175-20,556

Blow: Initial & Final Flows were weak increasing to 6" into bucket.

Recovery: 120' Slightly Gas Cut Muddy Saltwater
540' Slightly Gas Cut Saltwater

Gas Flow:

Sampler Data:	Remarks:
Pressure _____ PSI	110,000 PPM Cl.
Gas _____ cu. ft.	
Total Fluid _____ cc	
Oil _____ cc	
Water <u>1500</u> _____ cc	
Mud _____ cc	
Oil Gravity _____ @ _____ °F.	
Gas/Oil Ratio _____	

Tester Roy Cooper Witnessed by: Kenny Sizemore

SEC. 34 TWP. 32S RGE. 32W COUNTY Seward STATE Kansas TICKET NO. 1347

Petroleum, Inc. Irwin #2 WELL NAME & NO. TEST # 1 4270' - 4300' TEST INTERVAL

Pressure Break Down

Test ticket no. 1347 Recorder no. 6064 Capacity 6450 Rec. Depth. 4276'

Initial Flow pressure 58 to 202 Time Given 30 Computed 29

Initial Closed in pressure 875 60 57

Final Flow pressure 245 to 333 60 58

Final Closed-in pressure 892 120 114

Initial Hydrostatic pressure 2035 Final Hydrostatic press. 2003 Temp 102

Initial Flow Press.

Minutes	Press
0	58
5	65
10	130
15	153
20	173
25	189
29 30*	202
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	202
3	761
6	800
9	816
12	826
15	833
18	839
21	846
24	849
27	852
30	856
33	859
36	866
39	866
42	866
45	869
48	872
51	875
54	875
57	875
60	
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

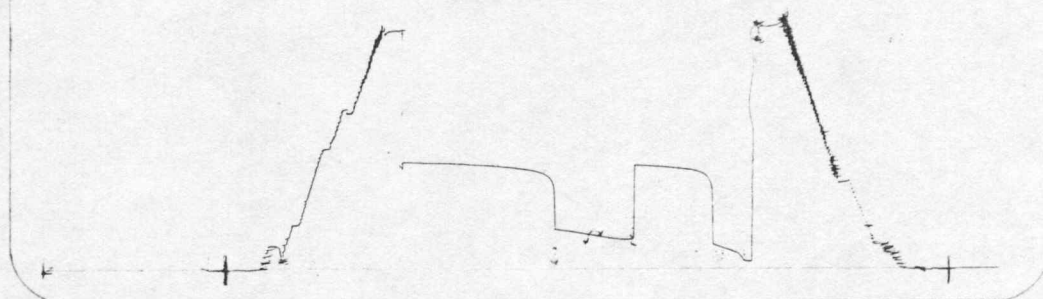
Final Flow Press

Minutes	Press
0	245
5	245
10	248
15	258
20	264
25	271
30	284
35	294
40	307
45	316
50	323
55	330
58	333
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
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175	
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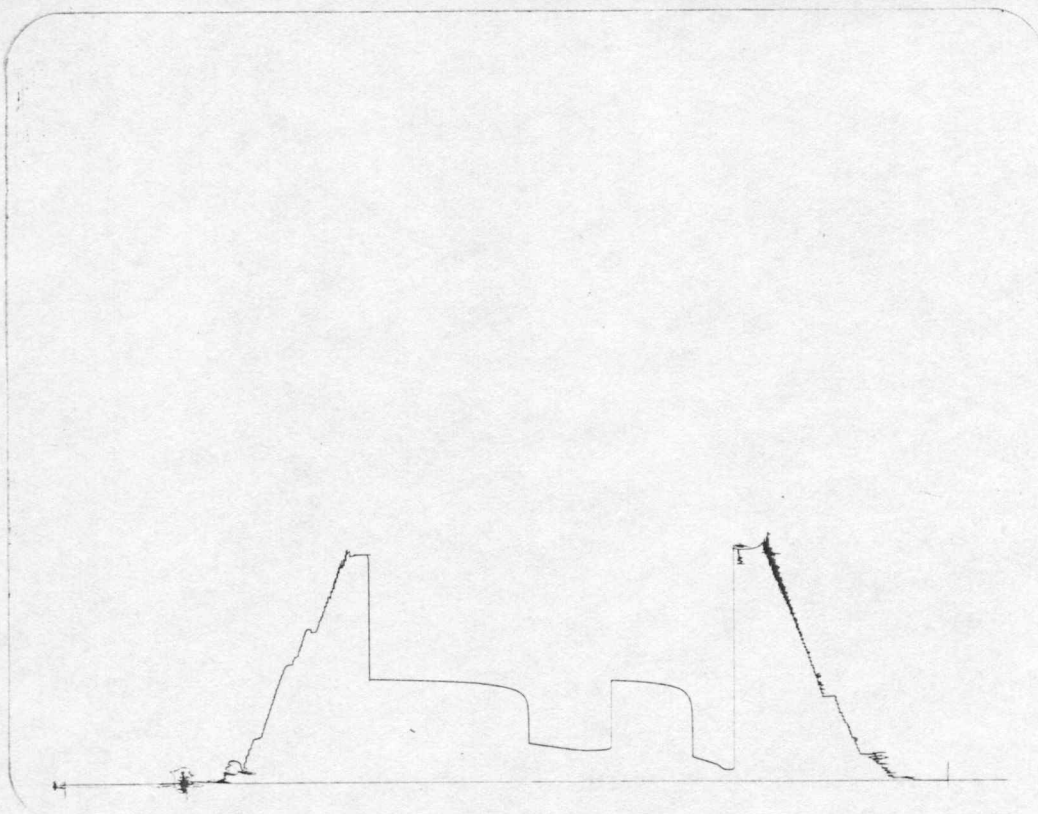
Final Closed in Press.

Minutes	Press
0	333
3	754
6	784
9	803
12	820
15	830
18	833
21	843
24	849
27	852
30	859
33	859
36	862
39	862
42	869
45	872
48	872
51	872
54	875
57	875
60	882
63	882
66	882
69	882
72	882
75	882
78	882
81	882
84	882
87	882
90	882
93	882
96	882
99	892
102	892
105	892
108	892
111	892
114	892
117	
120	

14909



Initial Hydrostatic _____ 2035 _____ psi
IFP _____ 58 _____ psi to _____ 202 _____ psi
ISIP _____ 875 _____ psi
FFP _____ 245 _____ psi to _____ 333 _____ psi
FSIP _____ 892 _____ psi
Final Hydrostatic _____ 2003 _____ psi



PHONE
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DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Lansing Type Test Bottom Hole w/Sampler Date October 16, 1981
Anchor Length and Size 14' x 4 1/2" Total Depth 4384'
Packer Depths 4365' & 4370' Below Straddle _____
Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub., Sample Chamber

Lengths: Tool 50' D. P. 3883' ID 3.8" Wt. P. _____ ID _____ D. C. 461' ID 2.25"
Mud Type Chemical Vis. 35 Wt. 8.7 Wtr. Loss 18 Cl. 4,000 ppm

Recorders:

Depth 4360' Make Kuster Cap. 6400 Ser. No. 13373 Inside
Depth 4382' Make Kuster Cap. 6500 Ser. No. 13374 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 1:45 P. M. Initial Hydrostatic 2138 psi
Initial Flow 31 Min. IFP 22 psi to 51 psi
Initial Shut-In 60 Min. ISIP 1266 psi
Final Flow 60 Min. FFP 80 psi to 106 psi
Final Shut-In 117 Min. FSIP 1250 psi
Tool off Bottom @ 6:15 P. M. Final Hydrostatic 2096 psi Temp. 102

1660' FNL # 880' FWL
API 15-175-20,556

Blow: Weak throughout test. 2" into bucket during Initial Flow. 1" into bucket during Final Flow.

Recovery: 60' Watery Mud
120' Saltwater

Top 48,000 PPM Cl
Middle 71,000 PPM Cl
Bottom 75,000 PPM Cl

Gas Flow:

Sampler Data:

Pressure 100 PSI
Gas _____ cu. ft.
Total Fluid _____ cc
Oil _____ cc
Water 1200 cc
Mud 1000 cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks:

75,000 PPM Cl

Tester Roy Cooper

Witnessed by: Kenny Sizemore

SEC. 34 TWP. 32S RGE. 32W COUNTY Seward STATE Kansas TICKET NO. 785

Petroleum, Inc.
OPERATOR

Irwin #2
WELL NAME & NO.

TEST #
2

4370' - 4384'
TEST INTERVAL

Pressure Break Down

Test ticket no. 785 Recorder no. 13373 Capacity 6400 Rec. Depth. 4360'

Initial Flow pressure 22 to 51 Time Given 30 Computed 31

Initial Closed in pressure 1266 60 60

Final Flow pressure 80 to 106 60 60

Final Closed-in pressure 1250 120 117

Initial Hydrostatic pressure 2138 Final Hydrostatic press. 2096 Temp 102

Initial Flow Press.

Minutes	Press
0	22
5	22
10	32
15	38
20	41
25	48
30	51
31xxx	51
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	51
3	709
6	967
9	1057
12	1102
15	1141
18	1163
21	1183
24	1196
27	1209
30	1218
33	1231
36	1234
39	1244
42	1247
45	1254
48	1254
51	1254
54	1260
57	1266
60	1266
63	
66	
69	
72	
75	
78	
81	
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93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

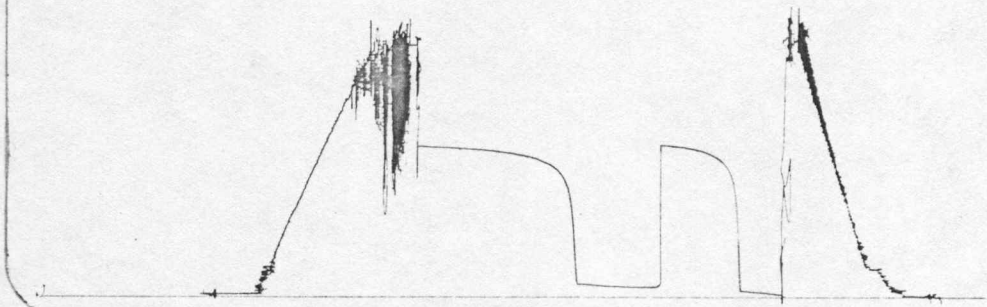
Final Flow Press

Minutes	Press
0	80
5	80
10	80
15	80
20	80
25	83
30	87
35	87
40	93
45	96
50	100
55	106
60	106
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

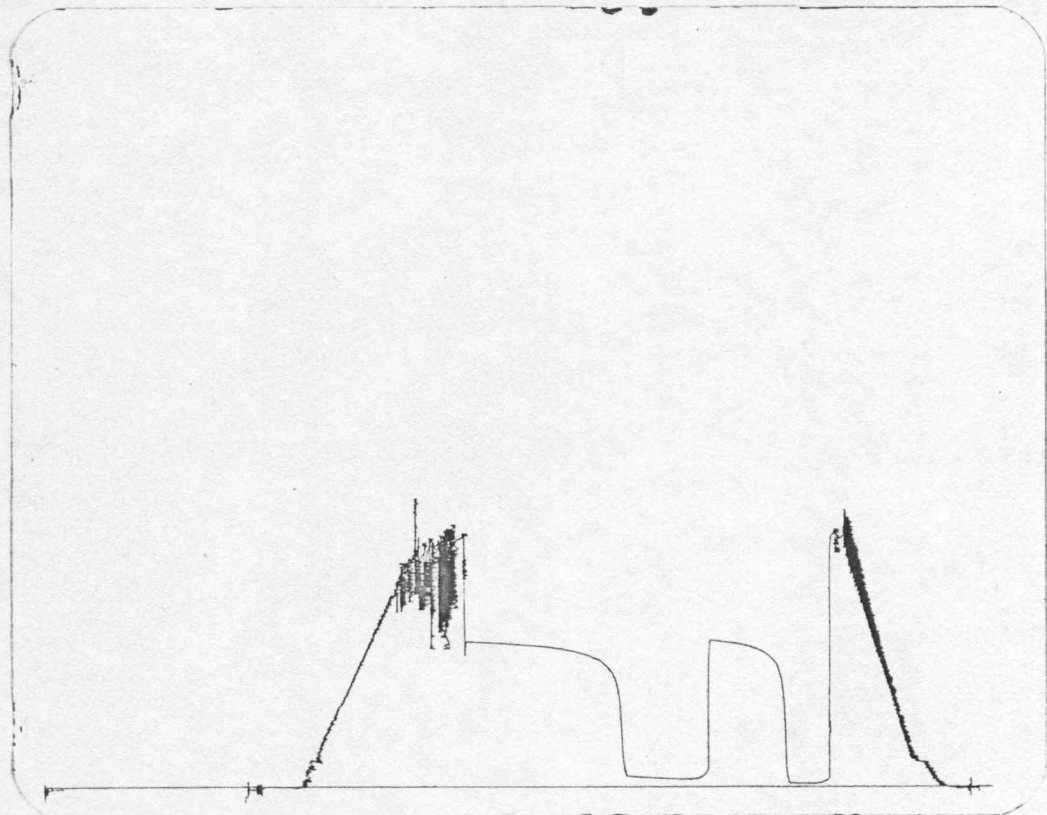
Final Closed in Press.

Minutes	Press
0	106
3	554
6	883
9	974
12	1032
15	1067
18	1093
21	1112
24	1128
27	1141
30	1154
33	1167
36	1173
39	1180
42	1186
45	1192
48	1199
51	1202
54	1209
57	1212
60	1215
63	1218
66	1218
69	1225
72	1228
75	1228
78	1228
81	1234
84	1234
87	1234
90	1241
93	1241
96	1241
99	1244
102	1244
105	1247
108	1247
111	1247
114	1250
117	1250
120	

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Initial Hydrostatic _____ 2138 _____ psi
IFP _____ 22 _____ psi to _____ 51 _____ psi
ISIP _____ 1266 _____ psi
FFP _____ 80 _____ psi to _____ 106 _____ psi
FSIP _____ 1250 _____ psi
Final Hydrostatic _____ 2096 _____ psi



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DEAN'S TESTERS INC.

F. O. BOX 1182
LIBERAL, Ks. 67901

Petroleum Inc. OPERATOR

Irwin #2
WELL NAME & NO.

3
TEST #

5928' - 5940'
TEST INTERVAL

SFC. 34
TWP. 32S
RGE. 32N
COUNTY Seward
STATE Kansas
TICKET NO. 787

Formation St. Louis Type Test Bottom Hole w/Sampler Date October 21, 1981
Anchor Length and Size 12' x 4 1/2" Total Depth 5940'
Packer Depths 5923' & 5928' Below Straddle
Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub., Sample Chamber

Lengths: Tool 48' D. P. 5408' ID 3.8" Wt. P. ID D. C. 492' ID 2.25"
Mud Type Chemical Vis. 44 Wt. 9.0 Wtr. Loss 8.8 Cl. 1800 ppm

Recorders: Depth 5918' Make Kuster Cap. 6400 Ser. No. 13373 Inside
Depth 5938' Make Kuster Cap. 6500 Ser. No. 13374 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 5:15 A.M. Initial Hydrostatic 2867 psi
Initial Flow 30 Min. IFP 64 psi to 74 psi
Initial Shut-in 59 Min. ISIP 1807 psi
Final Flow 60 Min. FFP 87 psi to 129 psi
Final Shut-in 120 Min. FSIP 1810 psi
Tool off Bottom @ 9:45 A.M. Final Hydrostatic 2829 psi Temp. 130

1660' FNL # 880' FUL
API 15-175-20556

Blow: Strong throughout test.

Recovery: 30' Watery Oily Mud Top 51,000 PPM Cl
60' Saltwater 145,000 PPM Cl. Middle 66,000 PPM Cl
150' Oily Drilling Mud Bottom 145,000 PPM Cl

Gas Flow:

Sampler Data:

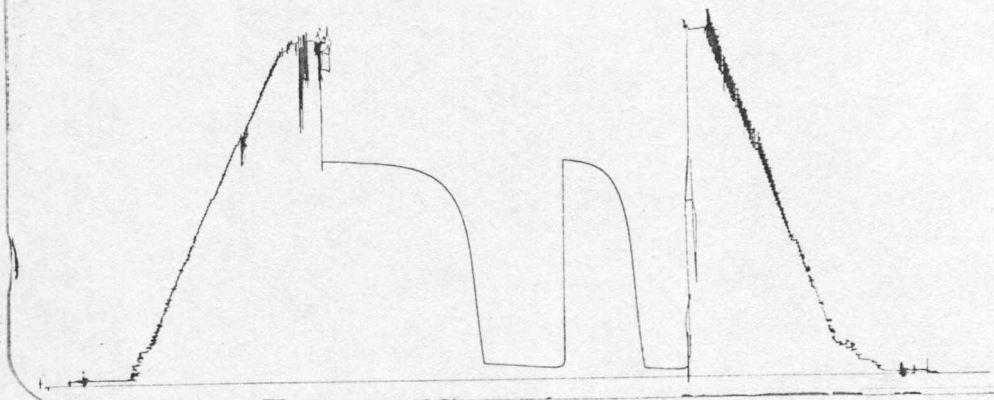
Pressure 110 PSI
Gas .20 cu. ft.
Total Fluid 1600 cc
Oil 200 cc
Water 1400 cc
Mud _____ cc
Oil Gravity _____ °F.
Gas/Oil Ratio _____

Remarks:

145,000 PPM Cl.

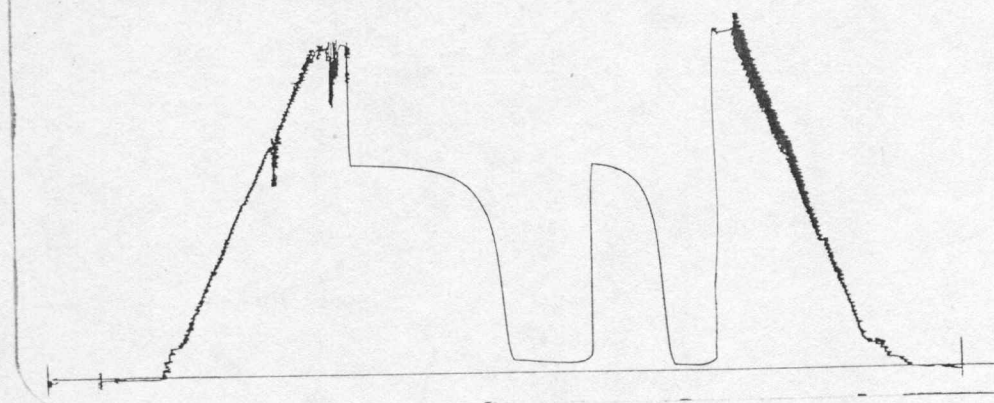
Tester Roy Cooper Witnessed by: Kenny Sizemore

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Initial Hydrostatic _____ 2867 _____ psi
 IFP _____ 64 _____ psi to _____ 74 _____ psi
 ISIP _____ 1807 _____ psi
 FFP _____ 87 _____ psi to _____ 129 _____ psi
 FSIP _____ 1810 _____ psi
 Final Hydrostatic _____ 2829 _____ psi

3374



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DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow Type Test Hook Straddle W/Sampler Date October 23, 1981
Anchor Length and Size 66' 30'x6½" & 36'x4½" Total Depth 6110'
Packer Depths 5569' & 5574' Below Straddle 5640'
Equipment Run 3 Packers, Jars, Safety Joint, Circulating sub, Straddle Assembly,
Sample Chamber, Sidewall Hook Assembly

Lengths: Tool 101' D. P. ID Wt. P. ID D. C. ID
Mud Type Chemical Vis. 44 WT. 9.1 Wtr. Loss 9.6 Cl. 2100 ppm

Recorders:

Depth 5586' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 5595' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth 5649' Make H & T Cap. 6000 Ser. No. 23 Below Straddle

Pressures:

Tool on Bottom @ 4:20 P.M. Initial Hydrostatic _____ psi
Initial Flow _____ Min. IFP _____ psi to _____ psi
Initial Shut-In _____ Min. ISIP _____ psi
Final Flow _____ Min. FFP _____ psi to _____ psi
Final Shut-In _____ Min. FSIP _____ psi
Tool off Bottom @ _____ M. Final Hydrostatic _____ psi Temp. _____

1660' FNL 880 FNL
API 15-175-20,556

Blow:

Recovery:

Gas Flow:

Sampler Data:

Pressure _____ PSI
Gas _____ cu. ft.
Total Fluid _____ cc
Oil _____ cc
Water _____ cc
Mud _____ cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks:

Set hook & tool slid 5'. After opening
up tool hook wall fell through at 12
minutes.

Tester R.L. Young Witnessed by: _____

SEC. 34 TWP. 32S RGE. 32W COUNTY Seward STATE Kansas TICKET NO. 1586

Petroleum, Inc.
OPERATOR

ITWIN #2
WELL NAME & NO.

TEST #

TEST INTERVAL

