

Company Olympic Petroleum Company Lease & Well No. Dora Holtje #1
 Elevation 1480 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 7303
 Date 9-11-80 Sec. 16 Twp. 26S Range 4W County Reno State Kansas
 Test Approved by James F Dilts Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 3638 ft. to 3650 ft. Total Depth 3650 ft.
 Packer Depth 3638 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3633 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3641 ft. Recorder Number 6234 Cap. 4500
 Bottom Recorder Depth (Outside) 3644 ft. Recorder Number 4339 Cap. 4300
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger #3 Drill Collar Length - I. D. - in.
 Mud Type Salt Gel-Starch Viscosity 36 Weight Pipe Length 1230 I. D. 2.7 in.
 Weight 10.0 Water Loss 16.2 cc. Drill Pipe Length 2388 I. D. 3.8 in.
 Chlorides 89,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 12 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Weak Blow on initial flow period. Strong blow on final flow period

Recovered 60 ft. of mud
 Recovered 60 ft. of muddy water
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:20 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:20 ~~P.M.~~ ^{A.M.} Maximum Temperature 110
 Initial Hydrostatic Pressure (A) 1930 P.S.I.
 Initial Flow Period Minutes 30 (B) Plugging Action P.S.I. to (C) 842* P.S.I.
 Initial Closed In Period Minutes 60 (D) 1234 P.S.I.
 Final Flow Period Minutes 30 (E) 55* P.S.I. to (F) 62 P.S.I.
 Final Closed In Period Minutes 60 (G) 1174 P.S.I.
 Final Hydrostatic Pressure (H) 1912 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-11-80

Test Ticket No. 7303

Recorder No. 6234

Capacity 4500

Location 3641 Ft.

Clock No. ----- Elevation 1480 Kelly Bushing

Well Temperature 110 °F

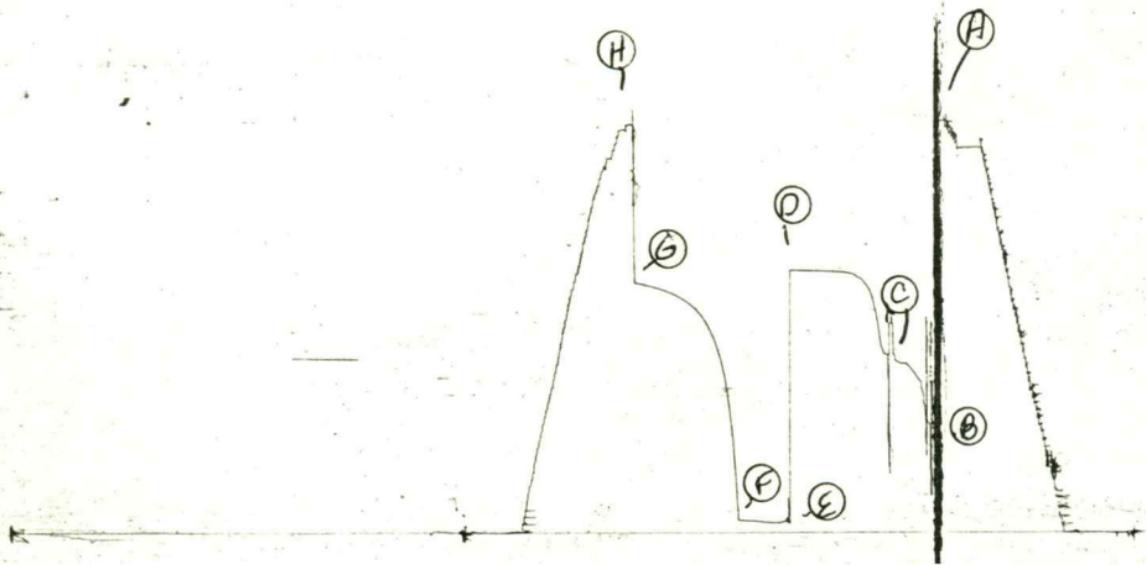
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1930</u>	P.S.I.	<u>5:20</u>	<u>M</u>
B First Initial Flow Pressure	<u>Plugging Action</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>842*</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1234</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>55*</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>62</u>	P.S.I.		
G Final Closed-in Pressure	<u>1174</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1912</u>	P.S.I.		

* Pressures Questionable

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>Plugging Action</u>	<u>0</u>	<u>842*</u>	<u>0</u>	<u>55*</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>Plugging Action</u>	<u>3</u>	<u>982*</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>356</u>
P 3 <u>10</u>	<u>516*</u>	<u>6</u>	<u>854</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>552</u>
P 4 <u>15</u>	<u>723*</u>	<u>9</u>	<u>962</u>	<u>15</u>	<u>53</u>	<u>9</u>	<u>718</u>
P 5 <u>20</u>	<u>779*</u>	<u>12</u>	<u>1072</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>820</u>
P 6 <u>25</u>	<u>801*</u>	<u>15</u>	<u>1147</u>	<u>25</u>	<u>60</u>	<u>15</u>	<u>892</u>
P 7 <u>30</u>	<u>842*</u>	<u>18</u>	<u>1179</u>	<u>30</u>	<u>62</u>	<u>18</u>	<u>944</u>
P 8 _____	_____	<u>21</u>	<u>1199</u>	_____	_____	<u>21</u>	<u>991</u>
P 9 _____	_____	<u>24</u>	<u>1213</u>	_____	_____	<u>24</u>	<u>1027</u>
P10 _____	_____	<u>27</u>	<u>1222</u>	_____	_____	<u>27</u>	<u>1054</u>
P11 _____	_____	<u>30</u>	<u>1226</u>	_____	_____	<u>30</u>	<u>1075</u>
P12 _____	_____	<u>33</u>	<u>1228</u>	_____	_____	<u>33</u>	<u>1093</u>
P13 _____	_____	<u>36</u>	<u>1229</u>	_____	_____	<u>36</u>	<u>1109</u>
P14 _____	_____	<u>39</u>	<u>1230</u>	_____	_____	<u>39</u>	<u>1122</u>
P15 _____	_____	<u>42</u>	<u>1231</u>	_____	_____	<u>42</u>	<u>1133</u>
P16 _____	_____	<u>45</u>	<u>1232</u>	_____	_____	<u>45</u>	<u>1153</u>
P17 _____	_____	<u>48</u>	<u>1232</u>	_____	_____	<u>48</u>	<u>1149</u>
P18 _____	_____	<u>51</u>	<u>1233</u>	_____	_____	<u>51</u>	<u>1156</u>
P19 _____	_____	<u>54</u>	<u>1233</u>	_____	_____	<u>54</u>	<u>1162</u>
P20 _____	_____	<u>57</u>	<u>1234</u>	_____	_____	<u>57</u>	<u>1167</u>
		<u>60</u>	<u>1234</u>			<u>60</u>	<u>1174</u>

JK # 7303
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Company Olympic Petroleum Company Lease & Well No. Holtje #1
 Elevation 1500 Kelly Bushing Formation Misener Effective Pay - Ft. Ticket No. 6857
 Date 9-13-80 Sec. 16 Twp. 26S Range 4W County Reno State Kansas
 Test Approved by James Dilts Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 3998 ft. to 4028 ft. Total Depth 4028 ft.
 Packer Depth 3993 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3998 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4002 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 4005 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Rig #3 Drill Collar Length - I. D. - in.
 Mud Type Starch Viscosity 45 Weight Pipe Length 250 I. D. 2 1/2 in.
 Weight 9.9 Water Loss 18.6 cc. Drill Pipe Length 3726 I. D. 3.8 in.
 Chlorides 40,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
 Jars: Make NO Serial Number - Anchor Length 30 ft. Size 5 1/2 OD in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very weak blow for 15 minutes throughout blow. Died on initial flow period. No blow on final flow period.

Recovered 10 ft. of Drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 123
 Initial Hydrostatic Pressure (A) 2173 P.S.I.
 Initial Flow Period Minutes 20 (B) 12 P.S.I. to (C) 10 P.S.I.
 Initial Closed In Period Minutes 36 (D) 17 P.S.I.
 Final Flow Period Minutes 15 (E) 16 P.S.I. to (F) 12 P.S.I.
 Final Closed In Period Minutes 33 (G) 10 P.S.I.
 Final Hydrostatic Pressure (H) 2094 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-13-80

Test Ticket No. 6857

Recorder No. 2606

Capacity 4150 Location 4002 Ft.

Clock No. -----

Elevation 1500 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2173</u> P.S.I.	Open Tool	<u>5:00</u> AM	
B First Initial Flow Pressure	<u>12</u> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>10</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>36</u> Mins.
D Initial Closed-in Pressure	<u>17</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>16</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>12</u> P.S.I.			
G Final Closed-in Pressure	<u>10</u> P.S.I.			
H Final Hydrostatic Mud	<u>2094</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

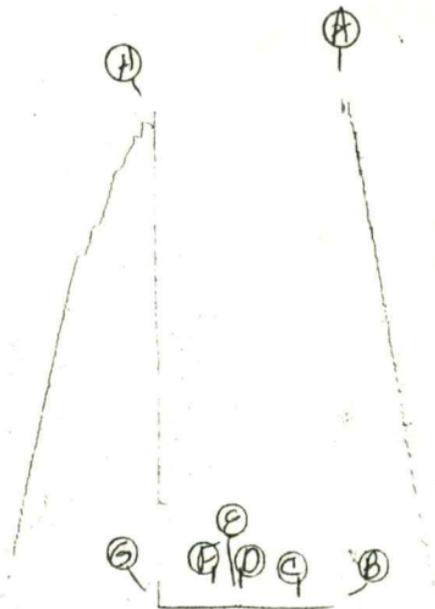
Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>12</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>16</u>	<u>0</u>	<u>12</u>
P 2 <u>5</u>	<u>12</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>14</u>	<u>3</u>	<u>10</u>
P 3 <u>10</u>	<u>12</u>	<u>6</u>	<u>10</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>10</u>
P 4 <u>15</u>	<u>10</u>	<u>9</u>	<u>10</u>	<u>15</u>	<u>12</u>	<u>9</u>	<u>10</u>
P 5 <u>20</u>	<u>10</u>	<u>12</u>	<u>10</u>			<u>12</u>	<u>10</u>
P 6		<u>15</u>	<u>10</u>			<u>15</u>	<u>10</u>
P 7		<u>18</u>	<u>10</u>			<u>18</u>	<u>10</u>
P 8		<u>21</u>	<u>11</u>			<u>21</u>	<u>10</u>
P 9		<u>24</u>	<u>12</u>			<u>24</u>	<u>10</u>
P10		<u>27</u>	<u>13</u>			<u>27</u>	<u>10</u>
P11		<u>30</u>	<u>14</u>			<u>30</u>	<u>10</u>
P12		<u>33</u>	<u>16</u>			<u>33</u>	<u>10</u>
P13		<u>36</u>	<u>17</u>				
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2606

DST #2

34 #6857
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Company Olympic Petroleum Company Lease & Well No. Holtje #1
 Elevation 1500 Kelly Bushing Formation Viola Effective Pay - Ft. Ticket No. 6858
 Date 9-13-80 Sec. 16 Twp. 26S Range 4W County Reno State Kansas
 Test Approved by James Dilts Western Representative Rod Tritt

Formation Test No. 3 Interval Tested from 4044 ft. to 4056 ft. Total Depth 4056 ft.
 Packer Depth 4039 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4044 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4048 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 4051 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Rig #3 Drill Collar Length - I. D. - in.
 Mud Type Starch Salt Clay Viscosity 49 Weight Pipe Length 250 I. D. 2 1/2 in.
 Weight 9.8 Water Loss 14.8 cc. Drill Pipe Length 3772 I. D. 3.8 in.
 Chlorides 42,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
 Jars: Make NO Serial Number - Anchor Length 12 ft. Size 5 1/2 OD in.
 Did Well Flow? NO Reversed Out YES Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow on both the initial and final flow periods. No gas to surface.

Recovered 2702 ft. of water Chlorides 52,000 P.P.M.
 Recovered - ft. of
 Recovered - ft. of
 Recovered - ft. of
 Recovered - ft. of

Remarks: _____

Time Set Packer(s) 11:30 ~~A.M.~~ P.M. Time Started Off Bottom 3:15 ~~A.M.~~ P.M. Maximum Temperature 133
 Initial Hydrostatic Pressure (A) 2178 P.S.I.
 Initial Flow Period Minutes 10 (B) 119 P.S.I. to (C) 374 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1427 P.S.I.
 Final Flow Period Minutes 60 (E) 529 P.S.I. to (F) 1126 P.S.I.
 Final Closed In Period Minutes 120 (G) 1431 P.S.I.
 Final Hydrostatic Pressure (H) 2137 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-13-80

Test Ticket No. 6858

Recorder No. 2606

Capacity 4150

Location 4048 Ft.

Clock No. ----- Elevation 1500 Kelly Bushing

Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2178</u> P.S.I.	Open Tool	<u>11:30 P.M.</u>	
B First Initial Flow Pressure	<u>119</u> P.S.I.	First Flow Pressure	<u>15 Mins.</u>	<u>10</u> Mins.
C First Final Flow Pressure	<u>374</u> P.S.I.	Initial Closed-in Pressure	<u>30 Mins.</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1427</u> P.S.I.	Second Flow Pressure	<u>60 Mins.</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>529</u> P.S.I.	Final Closed-in Pressure	<u>120 Mins.</u>	<u>120</u> Mins.
F Second Final Flow Pressure	<u>1126</u> P.S.I.			
G Final Closed-in Pressure	<u>1431</u> P.S.I.			
H Final Hydrostatic Mud	<u>2137</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>119</u>	<u>0</u>	<u>374</u>	<u>0</u>	<u>529</u>	<u>0</u>	<u>1126</u>
P 2	<u>306</u>	<u>3</u>	<u>1384</u>	<u>5</u>	<u>543</u>	<u>3</u>	<u>1388</u>
P 3	<u>374</u>	<u>6</u>	<u>1394</u>	<u>10</u>	<u>610</u>	<u>6</u>	<u>1400</u>
P 4		<u>9</u>	<u>1404</u>	<u>15</u>	<u>674</u>	<u>9</u>	<u>1411</u>
P 5		<u>12</u>	<u>1411</u>	<u>20</u>	<u>736</u>	<u>12</u>	<u>1417</u>
P 6		<u>15</u>	<u>1417</u>	<u>25</u>	<u>798</u>	<u>15</u>	<u>1419</u>
P 7		<u>18</u>	<u>1419</u>	<u>30</u>	<u>850</u>	<u>18</u>	<u>1421</u>
P 8		<u>21</u>	<u>1421</u>	<u>35</u>	<u>900</u>	<u>21</u>	<u>1421</u>
P 9		<u>24</u>	<u>1423</u>	<u>40</u>	<u>952</u>	<u>24</u>	<u>1425</u>
P10		<u>27</u>	<u>1425</u>	<u>45</u>	<u>998</u>	<u>27</u>	<u>1427</u>
P11		<u>30</u>	<u>1427</u>	<u>50</u>	<u>1041</u>	<u>30</u>	<u>1429</u>
P12				<u>55</u>	<u>1081</u>	<u>33</u>	<u>1429</u>
P13				<u>60</u>	<u>1126</u>	<u>36</u>	<u>1429</u>
P14						<u>39</u>	<u>1429</u>
P15						<u>42</u>	<u>1429</u>
P16						<u>45</u>	<u>1429</u>
P17						<u>48</u>	<u>1429</u>
P18						<u>51</u>	<u>1430</u>
P19						<u>54</u>	<u>1430</u>
P20						<u>57</u>	<u>1431</u>
						<u>60</u>	<u>1431</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 9-13-80

Test Ticket No. 6858

Recorder No. 2606

Capacity 4150 Location 4048 Ft.

Clock No. -----

Elevation 1500 Kelly Bushing Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2178	P.S.I.	11:30 P.M.	
B First Initial Flow Pressure	119	P.S.I.	15 Mins.	10 Mins.
C First Final Flow Pressure	374	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1427	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	529	P.S.I.	120 Mins.	120 Mins.
F Second Final Flow Pressure	1126	P.S.I.		
G Final Closed-in Pressure	1431	P.S.I.		
H Final Hydrostatic Mud	2137	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1						63	1431
2						66	1431
3						69	1431
4						72	1431
5						75	1431
6						78	1431
7						81	1431
8						84	1431
9						87	1431
0						90	1431
1						93	1431
2						96	1431
3						99	1431
4						102	1431
5						105	1431
6						108	1431
7						111	1431
8						114	1431
9						117	1431
10						120	1431

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