



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 4574

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 2122 KB Formation Lansing "D" Eff. Pay Ft.

District Wakeeney Date 8-19-80 Customer Order No.

COMPANY NAME K & E Petroleum, Inc. ADDRESS 816 Union Center Bldg. Wichita, Ks.

LEASE AND WELL NO. Thyfault #1 COUNTY Rooks STATE KS. Sec. 5 Twp 9S Rge 20W

Mail Invoice To Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3520 ft. to 3541 ft. Total Depth 3541 ft.

Packer Depth 3515 ft. Size 6 3/4 in. Packer Depth 3520 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3538 ft. Recorder Number 2608 Cap. 4150 Bottom Recorder Depth (Outside) 3541 ft. Recorder Number 3473 Cap. 4000

Drilling Contractor Abercrombie & Assoc. Rig #1 Mud Type Starch Viscosity 40 Weight 9.8 Water Loss 12.4 cc. Chlorides 19,000 P.P.M.

Jars: Make No Serial Number Did Well Flow? No Reversed Out Blow: Very weak Blow. Diced 7 min. into D.F.P. initial flow period No Blow on T.F.P. final flow period

Recovered 6 ft. of Mud Time Set Packer(s) 11:45 A.M. Time Started Off Bottom 1:45 P.M. Maximum Temperature 99°

COMPANY TERMS Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made...

FIELD INVOICE table with items: Open Hole Test \$550.00, Safety Joint \$50.00, TOTAL \$600.00

Test Approved By Thomas R. Satter Signature of Customer or his authorized representative Western Representative Leo Wolf

WESTERN TESTING CO., INC.

Pressure Data

Date 8-19-80 Recorder No. 2608 Capacity 4150 Location 3538 Ft.
 Clock No. _____ Elevation 2122 7B Well Temperature 99 °F

Test Ticket No. 4594

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1889</u>	P.S.I.	<u>11:45 A M</u>	
B First Initial Flow Pressure	<u>48</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>43</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1159</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>46</u>	P.S.I.		
G Final Closed-in Pressure	<u>1168</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1820</u>	P.S.I.		

PRESSURE BREAKDOWN

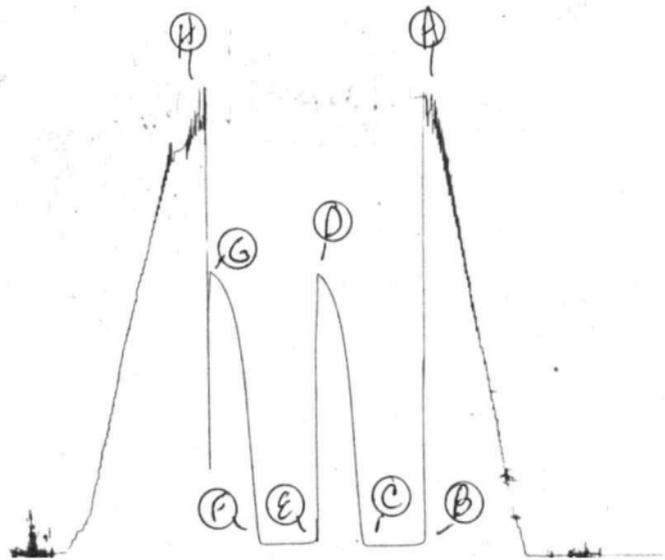
First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a 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>0</u>	<u>48</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>46</u>
P 2	<u>5</u>	<u>3</u>	<u>46</u>	<u>3</u>	<u>43</u>	<u>3</u>	<u>129</u>
P 3	<u>10</u>	<u>6</u>	<u>44</u>	<u>6</u>	<u>96</u>	<u>6</u>	<u>343</u>
P 4	<u>15</u>	<u>9</u>	<u>43</u>	<u>9</u>	<u>304</u>	<u>9</u>	<u>566</u>
P 5	<u>20</u>	<u>12</u>	<u>43</u>	<u>12</u>	<u>537</u>	<u>12</u>	<u>733</u>
P 6	<u>25</u>	<u>15</u>	<u>43</u>	<u>15</u>	<u>764</u>	<u>15</u>	<u>901</u>
P 7	<u>30</u>	<u>18</u>	<u>43</u>	<u>18</u>	<u>913</u>	<u>18</u>	<u>998</u>
P 8	<u>35</u>	<u>21</u>	<u>43</u>	<u>21</u>	<u>1006</u>	<u>21</u>	<u>1062</u>
P 9	<u>40</u>	<u>24</u>	<u>43</u>	<u>24</u>	<u>1068</u>	<u>24</u>	<u>1107</u>
P10	<u>45</u>	<u>27</u>	<u>43</u>	<u>27</u>	<u>1118</u>	<u>27</u>	<u>1141</u>
P11	<u>50</u>	<u>30</u>	<u>43</u>	<u>30</u>	<u>1145</u>	<u>30</u>	<u>1168</u>
P12	<u>55</u>	<u>33</u>	<u>43</u>	<u>33</u>	<u>1159</u>	<u>33</u>	
P13	<u>60</u>	<u>36</u>	<u>43</u>	<u>36</u>		<u>36</u>	
P14		<u>39</u>		<u>39</u>		<u>39</u>	
P15		<u>42</u>		<u>42</u>		<u>42</u>	
P16		<u>45</u>		<u>45</u>		<u>45</u>	
P17		<u>48</u>		<u>48</u>		<u>48</u>	
P18		<u>51</u>		<u>51</u>		<u>51</u>	
P19		<u>54</u>		<u>54</u>		<u>54</u>	
P19		<u>57</u>		<u>57</u>		<u>57</u>	
P20		<u>60</u>		<u>60</u>		<u>60</u>	

251²

SKT #4574

40 260
4574

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Company K. & E. Petroleum, Inc. Lease & Well No. Thyfaulf #1
 Location 2122 Kelly Bushing Formation Lansing "I" Effective Pay ----- Ft. Ticket No 4574
 Date 8/19/80 Sec. 5 Twp. 9S Range 20W County Rooks State Kansas
 Approved by Thomas Satter Western Representative Les Holtz

Information Test No. 1 Interval Tested from 3520 ft. to 3541 ft. Total Depth 3541 ft.
 Packer Depth 3515 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3520 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Recorder Depth (Inside) 3538 ft. Recorder Number 2608 Cap. 4150
 Recorder Depth (Outside) 3541 ft. Recorder Number 3473 Cap. 4000
 Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drlg. Rig #1 Drill Collar Length 269 I. D. 2.26 in.
 Mud Type starch Viscosity 40 Weight Pipe Length 969 I. D. 2.76 in.
 Mud Weight 9.8 Water Loss 12.4 cc. Drill Pipe Length 2259 I. D. 3.8 in.
 Mud Solids 19,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
 Mud: Make No Serial Number - Anchor Length 21 ft. Size 5 1/2 in.
 Mud Well Flow? No Reversed Out - 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.

Remarks: Very weak blow; died seven minutes into initial flow period. No blow on final flow period.

covered 6 ft. of mud
 covered ft. of
 covered ft. of
 covered ft. of
 covered ft. of
 marks:

Time Set Packer(s) 11:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 99°
 Initial Hydrostatic Pressure (A) 1889 P.S.I.
 Initial Flow Period Minutes 30 (B) 48 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period Minutes 33 (D) 1159 P.S.I.
 Final Flow Period Minutes 30 (E) 56 P.S.I. to (F) 46 P.S.I.
 Final Closed In Period Minutes 30 (G) 1168 P.S.I.
 Final Hydrostatic Pressure (H) 1820 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-19-80

Test Ticket No. 4574

Recorder No. 2608 Capacity 4150

Location 3538 Ft.

Clock No. _____ Elevation 2122 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
		P.S.I.		
A Initial Hydrostatic Mud	1889	P.S.I.	11:45 A	M
B First Initial Flow Pressure	48	P.S.I.	30	Mins.
C First Final Flow Pressure	43	P.S.I.	30	Mins.
D Initial Closed-in Pressure	1159	P.S.I.	30	Mins.
E Second Initial Flow Pressure	56	P.S.I.	30	Mins.
F Second Final Flow Pressure	46	P.S.I.	30	Mins.
G Final Closed-in Pressure	1168	P.S.I.		
H Final Hydrostatic Mud	1820	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 11 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: 10 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 0	48	0	43	0	56	0	46
P 2 5	46	3	43	5	52	3	127
P 3 10	44	6	96	10	48	6	343
P 4 15	43	9	304	15	48	9	566
P 5 20	43	12	537	20	48	12	733
P 6 25	43	15	764	25	48	15	901
P 7 30	43	18	913	30	46	18	998
P 8		21	1006			21	1062
P 9		24	1068			24	1107
P 10		27	1118			27	1141
P 11		30	1145			30	1168
P 12		33	1159				
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO: 4575

Kelly Bushing

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation 2122 RB Formation _____ Eff. Pay Ft.

District Wakarusa Date 8-20-80

Customer Order No.

COMPANY NAME K & E Petroleum, Inc.

ADDRESS Wichita, Ks.

LEASE AND WELL NO. Thy Fault #1 COUNTY Rooks STATE Ks. Sec. 5 Twp. 9S Rge. 20W

Mail Invoice To Thy Fault #1 Same No. Copies Requested 5

Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3650 ft. to 3685 ft. Total Depth 3685 ft.

Packer Depth 3645 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3650 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3682 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3685 ft. Recorder Number 3473 Cap. 4000

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Abercrombie Rig #1 Drill Collar Length 269 I. D. 2.26 in.

Mud Type Starch Viscosity 460 Weight Pipe Length 969 I. D. 2.76 in.

Weight 9.8 Water Loss 9.2 cc. Drill Pipe Length 2389 I. D. 3.8 in.

Chlorides 18,000 P.P.M. Test Tool Length 2.3 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number _____ Anchor Length 35 ft. Size 5 1/2 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: Very Weak Blow. Died 7 min into BFP. initial flow period

No Blow in FFP. final flow period

Recovered 12 ft. of Very Slightly O.I Spurred Mud.

Recovered _____ ft. of _____

Remarks: _____

Arrived on location @ 5:00 pm. Left location @ 1:00 am.

Time Set Packer(s) 8:00 A.M. / P.M. Time Started Off Bottom 10:00 A.M. / P.M. Maximum Temperature 99°

Initial Hydrostatic Pressure _____ (A) 1983 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 42 P.S.I. to (C) 42 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 603 P.S.I.

Final Flow Period _____ Minutes 30 (E) 42 P.S.I. to (F) 42 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 521 P.S.I.

Final Hydrostatic Pressure _____ (H) 1952 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Orman R. Satter
Signature of Customer or his authorized representative

Western Representative Leo Holt

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ <u>50.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____

TOTAL \$ 600.00

Shank!
Again!

WESTERN TESTING CO., INC.
Pressure Data

Date 8-20-80 Test Ticket No. 4595
 Recorder No. 2608 Capacity 4150 Location 3682 Ft.
 Clock No. _____ Elevation 2122 FB Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1960</u>	P.S.I.	<u>8:00 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>36</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>611</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>52</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.		
G Final Closed-in Pressure	<u>533</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1900</u>	P.S.I.		

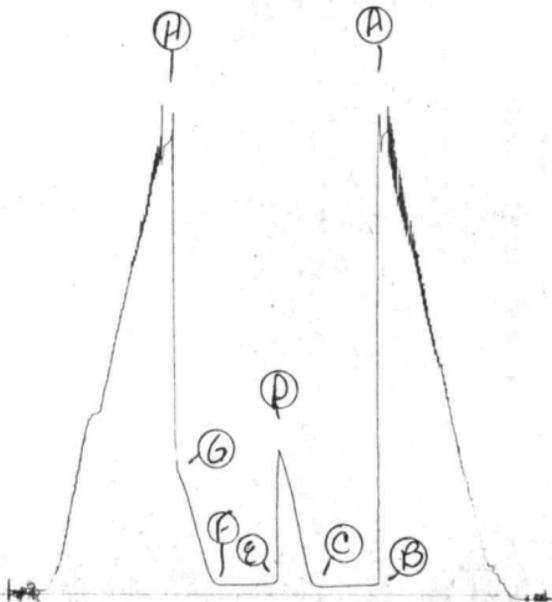
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</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>44</u>	0	<u>36</u>	0	<u>52</u>	0	<u>41</u>
P 2	<u>43</u>	3	<u>36</u>	5	<u>48</u>	3	<u>41</u>
P 3	<u>42</u>	6	<u>36</u>	10	<u>46</u>	6	<u>46</u>
P 4	<u>41</u>	9	<u>44</u>	15	<u>44</u>	9	<u>75</u>
P 5	<u>40</u>	12	<u>102</u>	20	<u>43</u>	12	<u>131</u>
P 6	<u>38</u>	15	<u>200</u>	25	<u>42</u>	15	<u>214</u>
P 7	<u>36</u>	18	<u>304</u>	30	<u>41</u>	18	<u>291</u>
P 8		21	<u>398</u>	35		21	<u>364</u>
P 9		24	<u>483</u>	40		24	<u>431</u>
P10		27	<u>554</u>	45		27	<u>487</u>
P11		30	<u>611</u>	50		30	<u>533</u>
P12		33		55		33	
P13		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

DST #2

Jkt #4575
I

J260
T 4575



Company K. & E. Petroleum, Inc. Lease & Well No. Thyfault #1
 Elevation 2122 Kelly Bushing Formation ----- Effective Pay ----- Ft. Ticket No. 4575
 Date 8/20/80 Sec. 5 Twp. 9S Range 20W County Rooks State Kansas
 Test Approved by Thomas R. Satter Western Representative Les Holtz

Formation Test No. 2 Interval Tested from 3650 ft. to 3685 ft. Total Depth 3685 ft.
 Packer Depth 3645 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3650 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3682 ft. Recorder Number 2608 Cap. 4150
 Bottom Recorder Depth (Outside) 3685 ft. Recorder Number 3473 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drilling Rig #1 Drill Collar Length 269 I. D. 2.26 in.
 Mud Type starch Viscosity 46 Weight Pipe Length 969 I. D. 2.76 in.
 Weight 9.8 Water Loss 9.2 cc. Drill Pipe Length 2389 I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 35 ft. Size 5 1/2 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: Very weak blow; Died seven minutes into initial flow period. No blow in final flow period.

Recovered 12 ft. of very slightly oil specked mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>8:00</u>	<u>A.M.</u>	Time Started Off Bottom	<u>10:00</u>	<u>A.M.</u>	Maximum Temperature	<u>99°</u>
Initial Hydrostatic Pressure		<u>P.M.</u>		<u>1960</u>			
Initial Flow Period			Minutes	<u>30</u>	(A)	<u>44</u>	<u>36</u> P.S.I.
Initial Closed In Period			Minutes	<u>30</u>	(B)	<u>611</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(C)	<u>52</u>	<u>41</u> P.S.I.
Final Closed In Period			Minutes	<u>30</u>	(D)	<u>533</u>	P.S.I.
Final Hydrostatic Pressure				<u>1900</u>	(E)		P.S.I.
					(F)		
					(G)		
					(H)		

WESTERN TESTING CO., INC.
Pressure Data

Date 8-20-80 Test Ticket No. 4575
 Recorder No. 2608 Capacity 4150 Location 3682 Ft.
 Clock No. - Elevation 2122 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1960	P.S.I.	8:00P.	M
B First Initial Flow Pressure	44	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	36	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	611	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	52	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	41	P.S.I.		
G Final Closed-in Pressure	533	P.S.I.		
H Final Hydrostatic Mud	1900	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In					
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.				
	of	5	mins. and a	final inc. of	0	Min.	of	3	mins. and a	final inc. of	0	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.					
P 1 0	44	0	36	0	52	0	41					
P 2 5	43	3	36	5	48	3	41					
P 3 10	42	6	36	10	46	6	46					
P 4 15	41	9	44	15	44	9	75					
P 5 20	40	12	102	20	43	12	131					
P 6 25	38	15	200	25	42	15	214					
P 7 30	36	18	304	30	41	18	291					
P 8		21	398			21	364					
P 9		24	483			24	431					
P10		27	554			27	487					
P11		30	611			30	533					
P12												
P13												
P14												
P15												
P16												
P17												
P18												
P19												
P20												