



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7642

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1541 G.R. Formation Lansing Eff. Pay - Ft.

District Pratt Date 11/8/80 Customer Order No. -
COMPANY NAME Martin Oil Co. + Pate-Dombaugh Petroleum
ADDRESS 1010 527 Union Center
LEASE AND WELL NO. Graber "A" #2 COUNTY Kingman STATE KS Sec. 9 Twp 29S Rge 6W
Mail Invoice To Same Co. Name Address No. Copies Requested 5
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3254 ft. to 3280 ft. Total Depth 3280 ft.
Packer Depth 3249 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3254 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3270 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3273 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Raw Drg Rig #1 Drill Collar Length - I. D. - in.
Mud Type Premix Viscosity 33 Weight Pipe Length 274 I. D. 2.7 in.
Weight 9.2 Water Loss 50.8 cc. Drill Pipe Length 2959 I. D. 3.8 in.
Chlorides 18,000 P.P.M. Test Tool Length 21 ft. Tool Size 5500 in.
Jars: Make - Serial Number - Anchor Length 26 ft. Size 5500 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 2 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very Weak blow died in 14 min of first flow period
No blow on second flow period
Recovered 20 ft. of Oil Cut Mud (Free oil on top of tool)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

RECEIVED
NOV 10 1980

Time On Location 5:00 A.M. Time Pick Up Tool 6:30 A.M. Time Off Location 12:30 A.M.
Time Set Packer(s) 8:00 A.M. Time Started Off Bottom 10:00 A.M. Maximum Temperature 114°
Initial Hydrostatic Pressure (A) 1594 P.S.I.
Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 63 P.S.I.
Initial Closed In Period Minutes 30 (D) 73 P.S.I.
Final Flow Period Minutes 30 (E) 63 P.S.I. to (F) 63 P.S.I.
Final Closed In Period Minutes 30 (G) 73 P.S.I.
Final Hydrostatic Pressure (H) 1573 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 *Ronald R. Dombaugh*
Signature of Customer or his authorized representative

Western Representative *Jim Wondra Thank You*

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 50m \$ 37.50
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$ 587.50

WESTERN TESTING CO., INC.

Pressure Data

Date 11-8 Recorder No. 2607 Capacity 4150 Test Ticket No. 7642 Location 3270 Ft.
 Clock No. Elevation 1541 212 Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1595</u> P.S.I.	<u>8:00</u> P _M	
B First Initial Flow Pressure	<u>80</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>57</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>64</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>59</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>57</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
G Final Closed-in Pressure	<u>60</u> P.S.I.		
H Final Hydrostatic Mud	<u>1574</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>0</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>57</u>
P 2	<u>5</u>	<u>3</u>	<u>54</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>57</u>
P 3	<u>10</u>	<u>6</u>	<u>54</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>57</u>
P 4	<u>15</u>	<u>9</u>	<u>54</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>57</u>
P 5	<u>20</u>	<u>12</u>	<u>55</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>57</u>
P 6	<u>25</u>	<u>15</u>	<u>55</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>57</u>
P 7	<u>30</u>	<u>18</u>	<u>54</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>57</u>
P 8	<u>35</u>	<u>21</u>	<u>56</u>	<u>35</u>	<u>57</u>	<u>21</u>	<u>57</u>
P 9	<u>40</u>	<u>24</u>	<u>59</u>	<u>40</u>	<u>57</u>	<u>24</u>	<u>58</u>
P10	<u>45</u>	<u>27</u>	<u>61</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>59</u>
P11	<u>50</u>	<u>30</u>	<u>64</u>	<u>50</u>	<u>57</u>	<u>30</u>	<u>60</u>
P12	<u>55</u>	<u>33</u>	<u> </u>	<u>55</u>	<u> </u>	<u>33</u>	<u> </u>
P13	<u>60</u>	<u>36</u>	<u> </u>	<u>60</u>	<u> </u>	<u>36</u>	<u> </u>
P14	<u> </u>	<u>39</u>	<u> </u>	<u>65</u>	<u> </u>	<u>39</u>	<u> </u>
P15	<u> </u>	<u>42</u>	<u> </u>	<u>70</u>	<u> </u>	<u>42</u>	<u> </u>
P16	<u> </u>	<u>45</u>	<u> </u>	<u>75</u>	<u> </u>	<u>45</u>	<u> </u>
P17	<u> </u>	<u>48</u>	<u> </u>	<u>80</u>	<u> </u>	<u>48</u>	<u> </u>
P18	<u> </u>	<u>51</u>	<u> </u>	<u>85</u>	<u> </u>	<u>51</u>	<u> </u>
P19	<u> </u>	<u>54</u>	<u> </u>	<u>90</u>	<u> </u>	<u>54</u>	<u> </u>
P20	<u> </u>	<u>57</u>	<u> </u>	<u> </u>	<u> </u>	<u>57</u>	<u> </u>
	<u> </u>	<u>60</u>	<u> </u>	<u> </u>	<u> </u>	<u>60</u>	<u> </u>

Company Martin Oil Company-Pate-Dombaugh Petroleum Lease & Well No. Graber "A" #2
 Elevation 1541 Ground Level Formation - Effective Pay - Ft. Ticket No. 8290
 Date 1/10/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Raymond R Dombaugh Western Representative Jim Wondra
 Formation Test No. 1 Interval Tested from 4056 ft. to 4070 ft. Total Depth 4070 ft.
 Packer Depth 4051 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4056 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4060 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4063 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Kaw Drilling Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length 305 I. D. 2.7 in.
 Weight 9.2 Water Loss 18.0 cc. Drill Pipe Length 3730 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 14 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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: Strong blow throughout test. Gas to surface in 52 minutes on final flow period.
Too small to measure.

Recovered 70 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks:

Time Set Packer(s) 1:00 ~~P.M.~~ A.M. Time Started Off Bottom 4:15 ~~P.M.~~ A.M. Maximum Temperature 123
 Initial Hydrostatic Pressure 2175 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 84 P.S.I. to (C) 54 P.S.I.
 Initial Closed In Period 42 Minutes (D) 971 P.S.I.
 Final Flow Period 60 Minutes (E) 91 P.S.I. to (F) 59 P.S.I.
 Final Closed In Period 63 Minutes (G) 1008 P.S.I.
 Final Hydrostatic Pressure 2051 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/10/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 8290
 Location 4060 Ft. Clock No. - Elevation 1541 Ground Level Well Temperature 123 °F

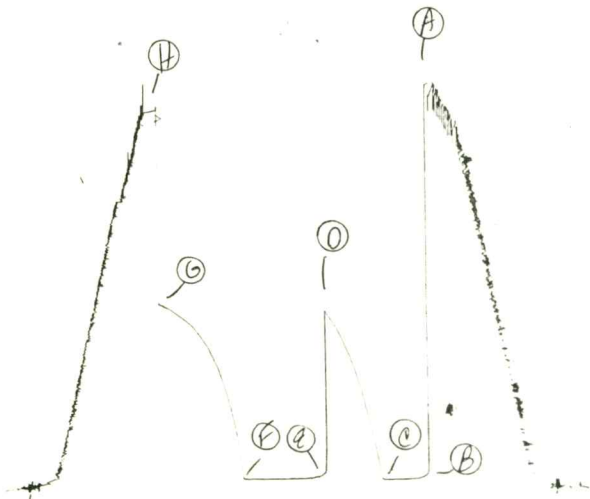
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2175</u>	P.S.I.	<u>1:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>84</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>54</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>971</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>91</u>	P.S.I.	<u>60</u>	<u>63</u> Mins.
F Second Final Flow Pressure	<u>59</u>	P.S.I.		
G Final Closed-in Pressure	<u>1008</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2051</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>14</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</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>84</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>59</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>142</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>239</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>237</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>352</u>
P 4 <u>15</u>	<u>56</u>	<u>9</u>	<u>339</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>441</u>
P 5 <u>20</u>	<u>54</u>	<u>12</u>	<u>428</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>517</u>
P 6 <u>25</u>	<u>54</u>	<u>15</u>	<u>506</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>587</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>581</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>648</u>
P 8		<u>21</u>	<u>648</u>	<u>35</u>	<u>59</u>	<u>21</u>	<u>698</u>
P 9		<u>24</u>	<u>710</u>	<u>40</u>	<u>59</u>	<u>24</u>	<u>743</u>
P10		<u>27</u>	<u>762</u>	<u>45</u>	<u>59</u>	<u>27</u>	<u>783</u>
P11		<u>30</u>	<u>812</u>	<u>50</u>	<u>59</u>	<u>30</u>	<u>816</u>
P12		<u>33</u>	<u>856</u>	<u>55</u>	<u>59</u>	<u>33</u>	<u>850</u>
P13		<u>36</u>	<u>896</u>	<u>60</u>	<u>59</u>	<u>36</u>	<u>875</u>
P14		<u>39</u>	<u>927</u>			<u>39</u>	<u>898</u>
P15		<u>42</u>	<u>971</u>			<u>42</u>	<u>916</u>
P16						<u>45</u>	<u>933</u>
P17						<u>48</u>	<u>950</u>
P18						<u>51</u>	<u>967</u>
P19						<u>54</u>	<u>981</u>
P20						<u>57</u>	<u>994</u>
						<u>60</u>	<u>1004</u>
						<u>63</u>	<u>1008</u>

JKT #8290

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Company Martin Oil Company- Pate-Dombaugh Petroleum Lease & Well No. Graber "A" #2
 Elevation 1541 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 8291
 Date 1/10/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Raymond R Dombaugh Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 4070 ft. to 4100 ft. Total Depth 4100 ft.
 Packer Depth 4065 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4070 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4090 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4093 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Kaw Drilling Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Chemical Viscosity 58 Weight Pipe Length 305 I. D. 2.7 in.
 Weight 9.4 Water Loss 15.0 cc. Drill Pipe Length 3744 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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: Strong blow throughout test. Gas to surface in 5 minutes on preflow. See attached sheet for gas measurements.

Recovered 180 ft. of heavy oil & gas cut mud
 Recovered 120 ft. of gassy muddy oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:10 ~~A.M.~~ P.M. Time Started Off Bottom 6:55 ~~A.M.~~ P.M. Maximum Temperature 123
 Initial Hydrostatic Pressure 2259 P.S.I.
 Initial Flow Period 30 Minutes (B) 137 P.S.I. to (C) 95 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1117 P.S.I.
 Final Flow Period 45 Minutes (E) 152 P.S.I. to (F) 108 P.S.I.
 Final Closed In Period 48 Minutes (G) 1029 P.S.I.
 Final Hydrostatic Pressure 2131 P.S.I. (H)

GAS FLOW REPORT

Date 1/10/81 Ticket 8291 Company Martin Oil Company - Pate-Dombaugh Petroleum
 Well Name and No. Graber "A" #2 Dst No. 2 Interval Tested 4070-4100
 County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
Gas to surface in 5 minutes						
	10 Min	11" water	1½" Orifice			231,000 C.F.P.D.
	20 Min	9" water	1½" Orifice			209,000 C.F.P.D.
	30 Min	7" water	1½" Orifice			184,000 C.F.P.D.

SECOND FLOW						
	5 Min	26" water	1½" Orifice			355,000 C.F.P.D.
	10 Min	9" water	1½" Orifice			209,000 C.F.P.D.
	20 Min	5" water	1½" Orifice			156,000 C.F.P.D.
	30 Min	5" water	1½" Orifice			156,000 C.F.P.D.
	40 Min	5" water	1½" Orifice			156,000 C.F.P.D.
	45 Min	5" water	1½" Orifice			156,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 1/10/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Martin Oil Company - Pate-Dombaugh
Petroleum
 Authorized by Raymond R Dombaugh

WESTERN TESTING CO., INC.

Pressure Data

Date 1/10/81 Test Ticket No. 8291
 Recorder No. 2607 Capacity 4150 Location 4090 Ft.
 Clock No. - Elevation 1541 Ground Level Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2259</u>	P.S.I.	<u>4:10P</u>	<u>M</u>
B First Initial Flow Pressure	<u>137</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>95</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>1117</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>152</u>	P.S.I.	<u>45</u>	Mins. <u>48</u> Mins.
F Second Final Flow Pressure	<u>108</u>	P.S.I.		
G Final Closed-in Pressure	<u>1029</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2131</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>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>16</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>137</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>152</u>	<u>0</u>	<u>108</u>
P 2 <u>5</u>	<u>110</u>	<u>3</u>	<u>564</u>	<u>5</u>	<u>127</u>	<u>3</u>	<u>556</u>
P 3 <u>10</u>	<u>99</u>	<u>6</u>	<u>785</u>	<u>10</u>	<u>112</u>	<u>6</u>	<u>702</u>
P 4 <u>15</u>	<u>95</u>	<u>9</u>	<u>889</u>	<u>15</u>	<u>109</u>	<u>9</u>	<u>777</u>
P 5 <u>20</u>	<u>95</u>	<u>12</u>	<u>939</u>	<u>20</u>	<u>108</u>	<u>12</u>	<u>824</u>
P 6 <u>25</u>	<u>95</u>	<u>15</u>	<u>975</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>856</u>
P 7 <u>30</u>	<u>95</u>	<u>18</u>	<u>1000</u>	<u>30</u>	<u>108</u>	<u>18</u>	<u>885</u>
P 8		<u>21</u>	<u>1021</u>	<u>35</u>	<u>108</u>	<u>21</u>	<u>908</u>
P 9		<u>24</u>	<u>1040</u>	<u>40</u>	<u>108</u>	<u>24</u>	<u>929</u>
P10		<u>27</u>	<u>1054</u>	<u>45</u>	<u>108</u>	<u>27</u>	<u>946</u>
P11		<u>30</u>	<u>1067</u>			<u>30</u>	<u>962</u>
P12		<u>33</u>	<u>1079</u>			<u>33</u>	<u>979</u>
P13		<u>36</u>	<u>1090</u>			<u>36</u>	<u>994</u>
P14		<u>39</u>	<u>1100</u>			<u>39</u>	<u>1008</u>
P15		<u>42</u>	<u>1111</u>			<u>42</u>	<u>1015</u>
P16		<u>45</u>	<u>1117</u>			<u>45</u>	<u>1023</u>
P17						<u>48</u>	<u>1029</u>
P18							
P19							
P20							

JK# 8291
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