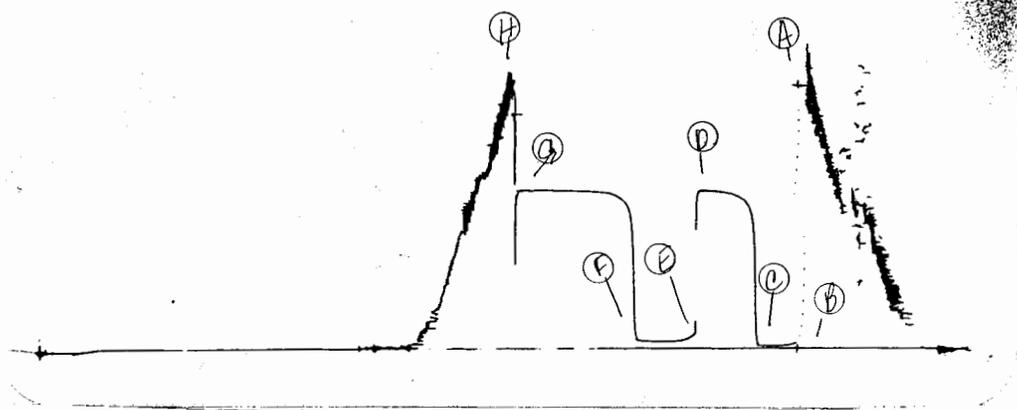


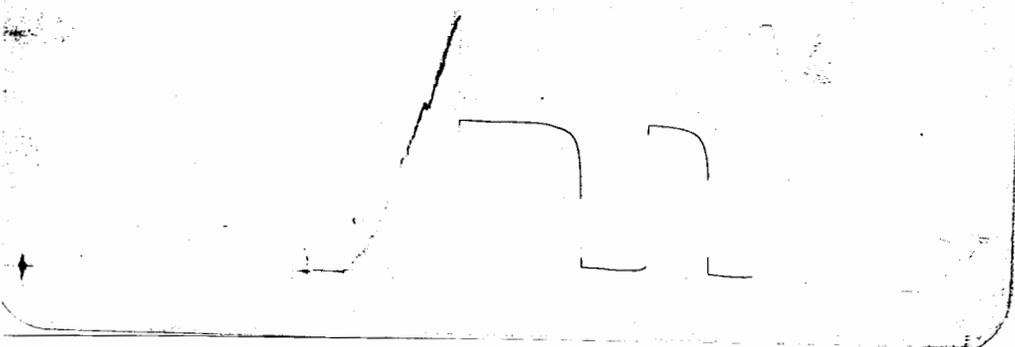
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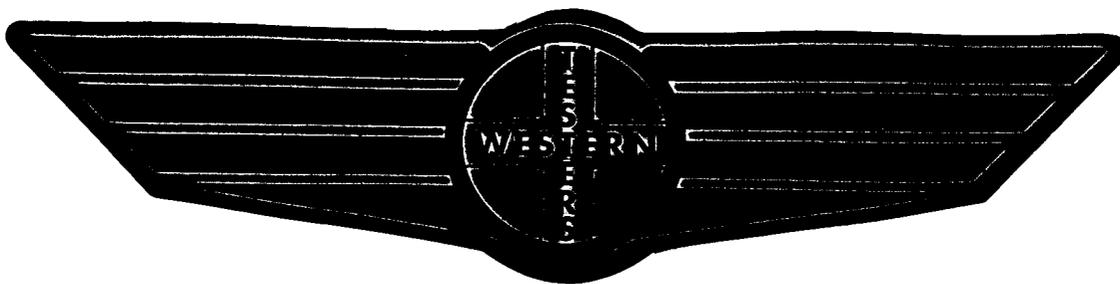


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TK# 19197
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

| | | | |
|------------|-----------------|------------|-------------|
| DATE | : 10-26-93 | TICKET | : 19797 |
| CUSTOMER | : CAMIO OIL CO. | LEASE | : YOUNG |
| WELL | : #2 | TEST: | 1 |
| ELEVATION: | 1541 K.B. | GEOLOGIST: | BILL STOUT |
| SECTION | : 30 | FORMATION: | MISSISSIPPI |
| RANGE | : 8E | COUNTY: | BUTLER |
| GAUGE SN#: | 10979 | RANGE | : 4100 |
| | | STATE | : KS |
| | | CLOCK | : 12 |

WELL INFORMATION

| | | | | | |
|----------------------------|------------|--------------------|------------|------------|-----------|
| PERFORATION INTERVAL FROM: | 2830.00 ft | TO: | 2840.00 ft | TVD: | 2840.0 ft |
| DEPTH OF SELECTIVE ZONE: | | | | TEST TYPE: | OIL |
| DEPTH OF RECORDERS: | 2835.0 ft | | 2837.0 ft | | |
| TEMPERATURE: | 111.0 | | | | |
| DRILL COLLAR LENGTH: | 360.0 ft | I.D.: | | 2.250 in | |
| WEIGHT PIPE LENGTH : | 0.0 ft | I.D.: | | 0.000 in | |
| DRILL PIPE LENGTH : | 2448.0 ft | I.D.: | | 2.650 in | |
| TEST TOOL LENGTH : | 22.0 ft | TOOL SIZE : | | 5.500 in | |
| ANCHOR LENGTH : | 10.0 ft | ANCHOR SIZE: | | 5.500 in | |
| SURFACE CHOKE SIZE : | 0.750 in | BOTTOM CHOKE SIZE: | | 0.750 in | |
| MAIN HOLE SIZE : | 7.875 in | TOOL JOINT SIZE : | | 3.5XH | |
| PACKER DEPTH: | 2825.0 ft | SIZE: | | 6.630 in | |
| PACKER DEPTH: | 2837.0 ft | SIZE: | | 6.630 in | |
| PACKER DEPTH: | 0.0 ft | SIZE: | | 0.000 in | |
| PACKER DEPTH: | 0.0 ft | SIZE: | | 0.000 in | |

MUD INFORMATION

| | | | |
|-----------------|------------|----------------|-----------|
| DRILLING CON. : | SUMMITT #1 | VISCOSITY : | 39.00 cp |
| MUD TYPE : | CHEMICAL | WATER LOSS: | 10.000 cc |
| WEIGHT : | 9.500 ppg | SERIAL NUMBER: | |
| CHLORIDES : | 900 ppm | REVERSED OUT?: | NO |
| JARS-MAKE : | NO | | |
| DID WELL FLOW?: | NO | | |

COMMENTS

Comment

VERY WEAK BLOW 1" INTO BUCKET ON INITIAL FLOW PERIOD. VERY WEAK BLOW ON TOP OF BUCKET ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

| Feet of Fluid | % Oil | % Gas | % Water | % Mud | Comments |
|------------------|----------|----------|------------|----------|--------------|
| 85.0 | 0.0 | 0.0 | 0.0 | 100.0 | DRILLING MUD |

RATE INFORMATION

| | |
|--------------------------|----------------------------------|
| OIL VOLUME: 0.0000 STB | TOTAL FLOW TIME: 75.0000 min. |
| GAS VOLUME: 0.0000 SCF | AVERAGE OIL RATE: 0.0000 STB/D |
| MUD VOLUME: 0.4180 STB | AVERAGE WATER RATE: 0.0000 STB/D |
| WATER VOLUME: 0.0000 STB | |
| TOTAL FLUID : 0.4180 STB | |

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1420.00

| Description | Duration | p1 | p End |
|-----------------|----------|-------|--------|
| INITIAL FLOW | 30.00 | 10.00 | 10.00 |
| INITIAL SHUT-IN | 45.00 | | 855.00 |
| FINAL FLOW | 45.00 | 50.00 | 40.00 |
| FINAL SHUT-IN | 90.00 | | 855.00 |

FINAL HYDROSTATIC PRESSURE: 1410.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1414.00

| Description | Duration | p1 | p End |
|-----------------|----------|-------|--------|
| INITIAL FLOW | 30.00 | 27.00 | 17.00 |
| INITIAL SHUT-IN | 45.00 | | 846.00 |
| FINAL FLOW | 45.00 | 73.00 | 40.00 |
| FINAL SHUT-IN | 90.00 | | 840.00 |

FINAL HYDROSTATIC PRESSURE: 1402.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

| | | | |
|-----------|-----------------|-----------|---------------|
| DATE | : 10-26-93 | TICKET | : 19797 |
| CUSTOMER | : CAMIO OIL CO. | LEASE | : YOUNG |
| WELL | : #2 | TEST: | 1 |
| ELEVATION | : 1541 K.B. | GEOLOGIST | : BILL STOUT |
| SECTION | : 30 | FORMATION | : MISSISSIPPI |
| RANGE | : 8E | TOWNSHIP | : 29S |
| GAUGE SN# | : 10979 | COUNTY | : BUTLER |
| | | STATE | : KS |
| | | RANGE | : 4100 |
| | | CLOCK | : 12 |

INITIAL FLOW

| <u>Time</u> <u>(min)</u> | <u>Pressure</u> | <u>Delta P</u> |
|-----------------------------|-----------------|----------------|
| 0.00 | 27.00 | 27.00 |
| 5.00 | 15.00 | -12.00 |
| 10.00 | 15.00 | 0.00 |
| 15.00 | 16.00 | 1.00 |
| 20.00 | 16.00 | 0.00 |
| 25.00 | 17.00 | 1.00 |
| 30.00 | 17.00 | 0.00 |

INITIAL SHUT IN

| <u>Time</u> <u>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------------|-----------------|----------------|-----------------|
| 3.00 | 423.00 | 423.00 | 0.00 |
| 6.00 | 710.00 | 287.00 | 0.00 |
| 9.00 | 778.00 | 68.00 | 0.00 |
| 12.00 | 799.00 | 21.00 | 0.00 |
| 15.00 | 813.00 | 14.00 | 0.00 |
| 18.00 | 823.00 | 10.00 | 0.00 |
| 21.00 | 827.00 | 4.00 | 0.00 |
| 24.00 | 836.00 | 9.00 | 0.00 |
| 27.00 | 840.00 | 4.00 | 0.00 |
| 30.00 | 841.00 | 1.00 | 0.00 |
| 33.00 | 842.00 | 1.00 | 0.00 |
| 36.00 | 843.00 | 1.00 | 0.00 |
| 39.00 | 844.00 | 1.00 | 0.00 |
| 42.00 | 845.00 | 1.00 | 0.00 |
| 45.00 | 846.00 | 1.00 | 0.00 |

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> |
|-----------------------|-----------------|----------------|
| 0.00 | 73.00 | 73.00 |
| 5.00 | 52.00 | -21.00 |
| 10.00 | 40.00 | -12.00 |
| 15.00 | 38.00 | -2.00 |
| 20.00 | 38.00 | 0.00 |
| 25.00 | 38.00 | 0.00 |
| 30.00 | 38.00 | 0.00 |
| 35.00 | 38.00 | 0.00 |
| 40.00 | 39.00 | 1.00 |
| 45.00 | 40.00 | 1.00 |

FINAL SHUT IN

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 3.00 | 421.00 | 421.00 | 0.00 |
| 6.00 | 483.00 | 62.00 | 0.00 |
| 9.00 | 773.00 | 290.00 | 0.00 |
| 12.00 | 799.00 | 26.00 | 0.00 |
| 15.00 | 815.00 | 16.00 | 0.00 |
| 18.00 | 829.00 | 14.00 | 0.00 |
| 21.00 | 838.00 | 9.00 | 0.00 |
| 24.00 | 840.00 | 2.00 | 0.00 |
| 27.00 | 840.00 | 0.00 | 0.00 |
| 30.00 | 840.00 | 0.00 | 0.00 |
| 33.00 | 840.00 | 0.00 | 0.00 |
| 36.00 | 840.00 | 0.00 | 0.00 |
| 39.00 | 840.00 | 0.00 | 0.00 |
| 42.00 | 840.00 | 0.00 | 0.00 |
| 45.00 | 840.00 | 0.00 | 0.00 |
| 48.00 | 840.00 | 0.00 | 0.00 |
| 51.00 | 840.00 | 0.00 | 0.00 |
| 54.00 | 840.00 | 0.00 | 0.00 |
| 57.00 | 840.00 | 0.00 | 0.00 |
| 60.00 | 840.00 | 0.00 | 0.00 |
| 63.00 | 840.00 | 0.00 | 0.00 |
| 66.00 | 840.00 | 0.00 | 0.00 |
| 69.00 | 840.00 | 0.00 | 0.00 |
| 72.00 | 840.00 | 0.00 | 0.00 |
| 75.00 | 840.00 | 0.00 | 0.00 |
| 78.00 | 840.00 | 0.00 | 0.00 |
| 81.00 | 840.00 | 0.00 | 0.00 |
| 84.00 | 840.00 | 0.00 | 0.00 |

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

| <u>Time</u> <u>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------------|-----------------|----------------|-----------------|
| 87.00 | 840.00 | 0.00 | 0.00 |
| 90.00 | 840.00 | 0.00 | 0.00 |



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 19797

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

Elevation 1541 KB Formation Miss Eff. Pay Ft.

District Augusta Date 10-26-93 Customer Order No.

COMPANY NAME Camilo Oil Co

ADDRESS Pobox 308 Augusta KS 67010

LEASE AND WELL NO. Young #2 COUNTY Butler STATE KS Sec. 30 Twp 29 Rge 8E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. DST#1 Interval Tested From 2830 ft. to 2840 ft. Total Depth 2840 ft.

Packer Depth 2825 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2830 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2835 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2837 ft. Recorder Number 3354 Cap. 4200

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

Drilling Contractor Summit Rig I Drill Collar Length 360 I. D. 2.25 in.

Mud Type Chem Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 10 cc. Drill Pipe Length 2448 I. D. 2.65 in.

Chlorides 900 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 3 1/2 in.

Blow: Very Weak Blow 1 min into bracket on (FFP) Very Weak below top of bracket on (FFP)

Recovered 85 ft. of drilling mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 5:00 A.M. Time Pick Up Tool 7:00 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 9:00 A.M. P.M. Time Started Off Bottom 12:30 A.M. P.M. Maximum Temperature 111 F

Initial Hydrostatic Pressure (A) 1420 P.S.I.

Initial Flow Period Minutes 30 (B) 10 P.S.I. to (C) 10 P.S.I.

Initial Closed In Period Minutes 45 (D) 855 P.S.I.

Final Flow Period Minutes 45 (E) 50 P.S.I. to (F) 40 P.S.I.

Final Closed In Period Minutes 90 (G) 855 P.S.I.

Final Hydrostatic Pressure (H) 1410 P.S.I. 10979

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: [Signature] Signature of Customer or his authorized representative

Western Representative: [Signature]

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19997

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

| Point | Pressure | Open Tool | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-------------|---------------|
| A Initial Hydrostatic Mud | <u>1414</u> P.S.I. | _____ M | _____ Mins. | _____ Mins. |
| B First Initial Flow Pressure | <u>27</u> P.S.I. | First Flow Pressure | _____ Mins. | _____ Mins. |
| C First Final Flow Pressure | <u>17</u> P.S.I. | Initial Closed-in Pressure | _____ Mins. | _____ Mins. |
| D Initial Closed-in Pressure | _____ P.S.I. | Second Flow Pressure | _____ Mins. | _____ Mins. |
| E Second Initial Flow Pressure | _____ P.S.I. | Final Closed-in Pressure | _____ Mins. | _____ Mins. |
| F Second Final Flow Pressure | _____ P.S.I. | | | |
| G Final Closed-in Pressure | _____ P.S.I. | | | |
| H Final Hydrostatic Mud | <u>1402</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|-----------------------------|-----------|-----------------------------|---------------------------|-----------------------------|-----------|-----------------------------|------------|
| Breakdown: _____ Inc. | | Breakdown: _____ Inc. | | Breakdown: _____ Inc. | | Breakdown: _____ 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 0 | <u>27</u> | 0 | <u>17</u> | 0 | <u>73</u> | 0 | <u>40</u> |
| P 2 5 | <u>15</u> | 3 | <u>423</u> | 5 | <u>52</u> | 3 | <u>421</u> |
| P 3 10 | <u>15</u> | 6 | <u>710</u> | 10 | <u>40</u> | 6 | <u>483</u> |
| P 4 15 | <u>16</u> | 9 | <u>778</u> | 15 | <u>38</u> | 9 | <u>773</u> |
| P 5 20 | <u>16</u> | 12 | <u>799</u> | 20 | <u>38</u> | 12 | <u>799</u> |
| P 6 25 | <u>17</u> | 15 | <u>813</u> | 25 | <u>38</u> | 15 | <u>815</u> |
| P 7 30 | <u>17</u> | 18 | <u>823</u> | 30 | <u>38</u> | 18 | <u>829</u> |
| P 8 35 | | 21 | <u>827</u> | 35 | <u>38</u> | 21 | <u>838</u> |
| P 9 40 | | 24 | <u>836</u> | 40 | <u>39</u> | 24 | <u>840</u> |
| P10 45 | | 27 | <u>840</u> | 45 | <u>40</u> | 27 | |
| P11 50 | | 30 | <u>841</u> | 50 | | 30 | |
| P12 55 | | 33 | 840 <u>842</u> | 55 | | 33 | |
| P13 60 | | 36 | <u>843</u> | 60 | | 36 | |
| P14 65 | | 39 | <u>844</u> | 65 | | 39 | |
| P15 70 | | 42 | <u>845</u> | 70 | | 42 | |
| P16 75 | | 45 | <u>846</u> | 75 | | 45 | |
| P17 80 | | 48 | | 80 | | 48 | |
| P18 85 | | 51 | | 85 | | 51 | |
| P19 90 | | 54 | | 90 | | 54 | |
| P20 95 | | 57 | | 95 | | 57 | |
| 100 | | 60 | | 100 | | 60 | |

WESTERN TESTING CO., INC.

Pressure Data

Date: _____

Test Ticket No. 19797

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

| Point | Pressure | Open Tool | Time Given | Time Computed |
|--------------------------------------|--------------|----------------------------------|-------------|---------------|
| A Initial Hydrostatic Mud _____ | _____ P.S.I. | _____ | _____ | _____ M _____ |
| B First Initial Flow Pressure _____ | _____ P.S.I. | First Flow Pressure _____ | _____ Mins. | _____ Mins. |
| C First Final Flow Pressure _____ | _____ P.S.I. | Initial Closed-in Pressure _____ | _____ Mins. | _____ Mins. |
| D Initial Closed-in Pressure _____ | _____ P.S.I. | Second Flow Pressure _____ | _____ Mins. | _____ Mins. |
| E Second Initial Flow Pressure _____ | _____ P.S.I. | Final Closed-in Pressure _____ | _____ Mins. | _____ Mins. |
| F Second Final Flow Pressure _____ | _____ P.S.I. | | | |
| G Final Closed-in Pressure _____ | _____ P.S.I. | | | |
| H Final Hydrostatic Mud _____ | _____ 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 _____ mins. and a final inc. of _____ Min. | | of _____ mins. and a final inc. of _____ Min. | | of _____ mins. and a final inc. of _____ Min. | | of _____ mins. and a final inc. of _____ Min. | |
| | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. | |
| P 1 | 105 | 63 | | 105 | | 63 | <u>840</u> | |
| P 2 | 110 | 66 | | 110 | | 66 | | |
| P 3 | 115 | 69 | | 115 | | 69 | | |
| P 4 | 120 | 72 | | 120 | | 72 | | |
| P 5 | 125 | 75 | | 125 | | 75 | | |
| P 6 | 130 | 78 | | 130 | | 78 | | |
| P 7 | 135 | 81 | | 135 | | 81 | | |
| P 8 | 140 | 84 | | 140 | | 84 | | |
| P 9 | 145 | 87 | | 145 | | 87 | | |
| P10 | 150 | 90 | | 150 | | 90 | <u>840</u> | |
| P11 | 155 | 93 | | 155 | | 93 | | |
| P12 | 160 | 96 | | 160 | | 96 | | |
| P13 | 165 | 99 | | 165 | | 99 | | |
| P14 | 170 | 102 | | 170 | | 102 | | |
| P15 | 175 | 105 | | 175 | | 105 | | |
| P16 | 180 | 108 | | 180 | | 108 | | |
| P17 | 185 | 111 | | 185 | | 111 | | |
| P18 | 190 | 114 | | 190 | | 114 | | |
| P19 | 195 | 117 | | 195 | | 117 | | |
| P20 | 200 | 120 | | 200 | | 120 | | |