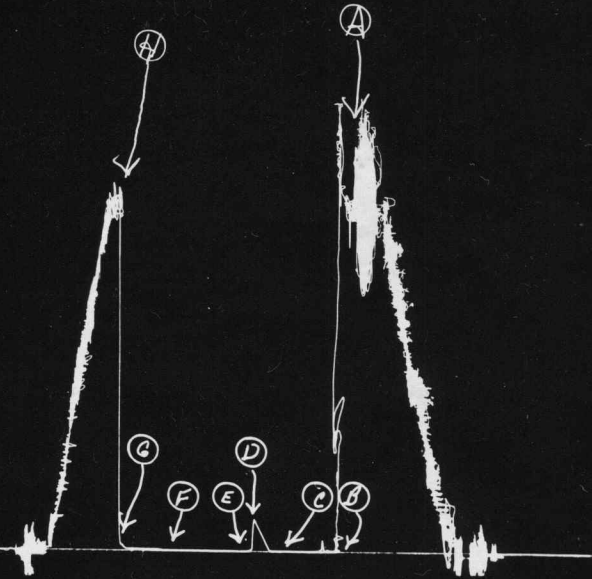


Glen Rupa
Trays B-1

TKT-10988
Test #1





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Glenn Rupe Lease & Well No. Hays B-1
Elevation 2053 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 10988
Date 4-2-69 Sec. 22 Twp. 23 Range 16 County Pawnee State Kansas
Test Approved by Richard Davis Western Representative Leon Elmore

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3655' to 3671' Total Depth 3671'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
Packer Depth 3650 Ft. Size 6 3/4 Packer Depth 3655 Ft. Size 6 3/4
Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 16 Ft. Size 5 1/2" OD

RECORDERS Depth 3664 Ft. Clock No. 6866 Depth 3667 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ ~~Inside~~ Outside Depth _____ Ft. Clock No. _____ ~~Inside~~ Outside
Top Make _____ Cap. _____ No. _____ ~~Inside~~ Outside Bottom Make _____ Cap. _____ No. _____ ~~Inside~~ Outside

Time Set Packer 4:36A M
Tool Open I.F.P. From 4:38 M. to 5:08A M. Hr. 30 Min. From (B) 7 P.S.I. To (C) 7 P.S.I.
Tool Closed I.C.I.P. From 5:08 M. to 5:38A M. Hr. 30 Min. (D) 191 P.S.I.
Tool Open F.F.P. From 5:38 M. to 6:38A M. 1 Hr. - Min. From (E) 7 P.S.I. To (F) 7 P.S.I.
Tool Closed F.C.I.P. From 6:38 M. to 7:08A M. Hr. 30 Min. (G) 45 P.S.I.
Initial Hydrostatic Pressure (A) 2076 P.S.I. Final Hydrostatic Pressure (H) 2047 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Good Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 5 feet mid

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 41 Weight 10.1 Water Loss 9.2 cc. Maximum Temp. 109 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 2635 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 700 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 36 ft.

Remarks Tool slid 7 feet to bottom— Anchor was plugging first 15 minutes of initial flow

WESTERN TESTING CO., INC.
Pressure Data

Date 4-2-69 Recorder No. 3085 Capacity 4500 Test Ticket No. 10988
 Clock No. 6866 Elevation 2053 Derrick floor Location 3664 Ft. Well Temperature 109 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------|--------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2076</u> | P.S.I. | <u>4:36A</u> | M |
| B First Initial Flow Pressure | <u>7</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>7</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>191</u> | P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>7</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>7</u> | P.S.I. | | |
| G Final Closed-in Pressure | <u>45</u> | P.S.I. | | |
| H Final Hydrostatic Mud | <u>2047</u> | P.S.I. | | |

PRESSURE BREAKDOWN

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

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

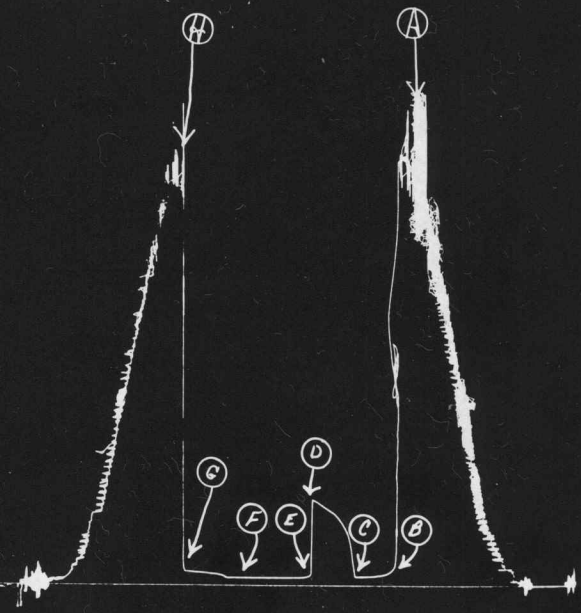
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of _____ Min.

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

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-------------|---------------|------------|---------------|----------|---------------|-----------|
| P 1 <u>0</u> | <u>7</u> | <u>0</u> | <u>7</u> | <u>0</u> | <u>7</u> | <u>0</u> | <u>7</u> |
| P 2 <u>5</u> | <u>7</u> | <u>3</u> | <u>7</u> | <u>5</u> | <u>7</u> | <u>3</u> | <u>8</u> |
| P 3 <u>10</u> | <u>plug</u> | <u>6</u> | <u>7</u> | <u>10</u> | <u>7</u> | <u>6</u> | <u>9</u> |
| P 4 <u>15</u> | <u>7</u> | <u>9</u> | <u>7</u> | <u>15</u> | <u>7</u> | <u>9</u> | <u>9</u> |
| P 5 <u>20</u> | <u>7</u> | <u>12</u> | <u>7</u> | <u>20</u> | <u>7</u> | <u>12</u> | <u>9</u> |
| P 6 <u>25</u> | <u>7</u> | <u>15</u> | <u>7</u> | <u>25</u> | <u>7</u> | <u>25</u> | <u>9</u> |
| P 7 <u>30</u> | <u>7</u> | <u>18</u> | <u>11</u> | <u>30</u> | <u>7</u> | <u>18</u> | <u>9</u> |
| P 8 _____ | | <u>21</u> | <u>69</u> | <u>35</u> | <u>7</u> | <u>21</u> | <u>9</u> |
| P 9 _____ | | <u>24</u> | <u>119</u> | <u>40</u> | <u>7</u> | <u>24</u> | <u>9</u> |
| P10 _____ | | <u>27</u> | <u>162</u> | <u>45</u> | <u>7</u> | <u>27</u> | <u>21</u> |
| P11 _____ | | <u>30</u> | <u>191</u> | <u>50</u> | <u>7</u> | <u>30</u> | <u>45</u> |
| P12 _____ | | <u>55</u> | | <u>55</u> | <u>7</u> | | |
| P13 _____ | | | | <u>60</u> | <u>7</u> | | |
| P14 _____ | | | | | | | |
| P15 _____ | | | | | | | |
| P16 _____ | | | | | | | |
| P17 _____ | | | | | | | |
| P18 _____ | | | | | | | |
| P19 _____ | | | | | | | |
| P20 _____ | | | | | | | |

Glen Rupe
Hays B-1

TKT-10989
Test #2





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Glenn Rupe Lease & Well No. Hays B-1
Elevation 2953 Derrick Floor Formation Conglomerate Effective Pay _____ Ft. Ticket No. 10989
Date 4-3-69 Sec. 22 Twp. 23 Range 16 County Pawnee State Kansas
Test Approved by Richard Davix Western Representative Leon Elmore

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3997' to 4018' Total Depth 4018'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. _____ Damaged Yes No
Packer Depth 3992 Ft. Size 6 3/4 Packer Depth 3997 Ft. Size 6 3/4
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" PH Anchor Length 21 Ft. Size 5 1/2" OD
RECORDERS Depth 4011 Ft. Clock No. 6866 Depth 4014 Ft. Clock No. 8377

Top Make Kuster Cap. 4500 No. 3085 Inside _____ Outside _____ Bottom Make Kuster Cap. 4400 No. 2603 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Outside _____ Inside _____
Top Make _____ Cap. _____ No. _____ Bottom Make _____ Cap. _____ No. _____ Outside _____

Time Set Packer 8:44P M
Tool Open I.F.P. From 8:46 M. to 9:16P M. Hr. 30 Min. From (B) 31 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 9:16 M. to 9:46P M. Hr. 30 Min. (D) 449 P.S.I.
Tool Open F.F.P. From 9:46 M. to 10:46P M. Hr. 60 Min. From (E) 14 P.S.I. To (F) 14 P.S.I.
Tool Closed F.C.I.P. From 10:46P M. to 11:16P M. Hr. 30 Min. (G) 45 P.S.I.
Initial Hydrostatic Pressure (A) 2307 P.S.I. Final Hydrostatic Pressure (H) 2304 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Strong Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 30 feet mud

Reversed Out Yes No _____ Mud Type starch Viscosity 47 Weight 10 Water Loss 13.6 cc. Maximum Temp. 114 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 3277 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 700 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 41 ft.

Remarks Gas to surface in 4 minutes

WESTERN TESTING CO., INC.
Pressure Data

Date 4-3-69

Test Ticket No. 10985

Recorder No. 3085 Capacity 4500

Location 4011 Ft.

Clock No. 6866 Elevation 2053 Derrick Floor

Well Temperature 114 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------|--------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2307</u> | P.S.I. | <u>30</u> | <u>26</u> |
| B First Initial Flow Pressure | <u>31</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>21</u> | P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| D Initial Closed-in Pressure | <u>449</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>14</u> | P.S.I. | | |
| F Second Final Flow Pressure | <u>14</u> | P.S.I. | | |
| G Final Closed-in Pressure | <u>45</u> | P.S.I. | | |
| H Final Hydrostatic Mud | <u>2304</u> | P.S.I. | | |

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 1 Min.

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

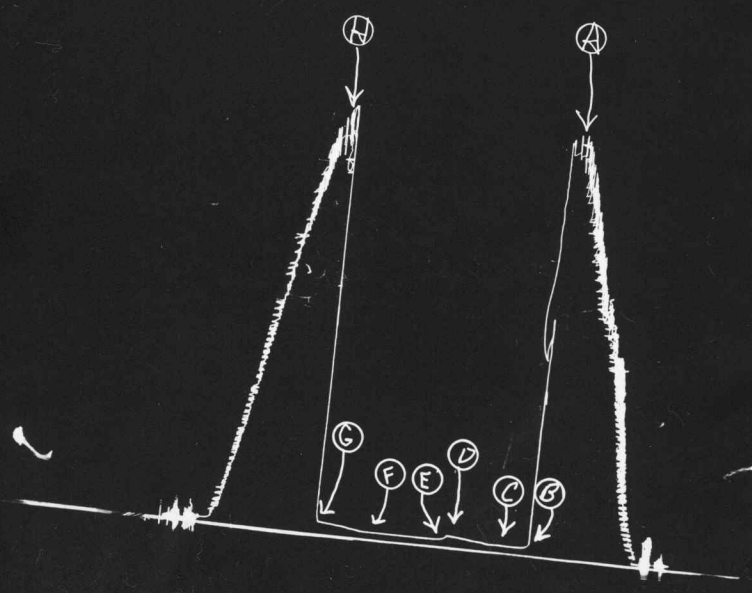
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of _____ Min.

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

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-----------|---------------|------------|---------------|-----------|---------------|-----------|
| P 1 <u>0</u> | <u>31</u> | <u>0</u> | <u>21</u> | <u>0</u> | <u>14</u> | <u>0</u> | <u>14</u> |
| P 2 <u>5</u> | <u>21</u> | <u>3</u> | <u>119</u> | <u>5</u> | <u>14</u> | <u>3</u> | <u>23</u> |
| P 3 <u>10</u> | <u>21</u> | <u>6</u> | <u>243</u> | <u>10</u> | <u>14</u> | <u>6</u> | <u>31</u> |
| P 4 <u>15</u> | <u>21</u> | <u>9</u> | <u>298</u> | <u>15</u> | <u>14</u> | <u>9</u> | <u>33</u> |
| P 5 <u>20</u> | <u>21</u> | <u>12</u> | <u>336</u> | <u>20</u> | <u>14</u> | <u>12</u> | <u>38</u> |
| P 6 <u>25</u> | <u>21</u> | <u>15</u> | <u>368</u> | <u>25</u> | <u>14</u> | <u>15</u> | <u>39</u> |
| P 7 <u>26</u> | <u>21</u> | <u>18</u> | <u>389</u> | <u>30</u> | <u>14</u> | <u>18</u> | <u>41</u> |
| P 8 _____ | | <u>21</u> | <u>406</u> | <u>35</u> | <u>14</u> | <u>21</u> | <u>43</u> |
| P 9 _____ | | <u>24</u> | <u>420</u> | <u>40</u> | <u>14</u> | <u>24</u> | <u>45</u> |
| P10 _____ | | <u>27</u> | <u>435</u> | <u>45</u> | <u>14</u> | <u>27</u> | <u>45</u> |
| P11 _____ | | <u>30</u> | <u>449</u> | <u>50</u> | <u>14</u> | <u>30</u> | <u>45</u> |
| P12 _____ | | | | | | | |
| P13 _____ | | | | | | | |
| P14 _____ | | | | | | | |
| P15 _____ | | | | | | | |
| P16 _____ | | | | | | | |
| P17 _____ | | | | | | | |
| P18 _____ | | | | | | | |
| P19 _____ | | | | | | | |
| P20 _____ | | | | | | | |

Glen Rye
Hays # B-1

TKT-10990
Test # 3





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Glenn Rupe Lease & Well No. Hays B-1
Elevation 2053 Derrick Floor Formation Simpson Effective Pay _____ Ft. Ticket No. 10990
Date 4-4-69 Sec. 22 Twp. 23 Range 16 County Pawnee State Kansas
Test Approved by Richard Davis Western Representative Leon Elmore

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 4047' to 4065' Total Depth 4065'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. B.T. _____ Damaged Yes No
Packer Depth 4042 Ft. Size 6 3/4 Packer Depth 4047 Ft. Size 6 3/4
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" PH Anchor Length 18 Ft. Size 5 1/2" OD
RECORDERS Depth 4056 Ft. Clock No. 6866 Depth 4059 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 Inside _____ Outside _____ Bottom Make Kuster Cap. 4400 No. 2603 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____ Depth _____ Ft. Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 3:36 P M
Tool Open I.F.P. From 3:38 M. to 4:08P M. Hr. 30 Min. From (B) 9 P.S.I. To (C) 10 P.S.I.
Tool Closed I.C.I.P. From 4:08 M. to 4:38P M. Hr. 30 Min. (D) 31 P.S.I.
Tool Open F.F.P. From 4:38 M. to 5:38P M. Hr. 60 Min. From (E) 10 P.S.I. To (F) 10 P.S.I.
Tool Closed F.C.I.P. From 5:38 M. to 6:08P M. Hr. 30 Min. (G) 30 P.S.I.
Initial Hydrostatic Pressure (A) 2260 P.S.I. Final Hydrostatic Pressure (H) 2250 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW ~~Strong~~ Strong Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 15 feet mud

Reversed Out Yes No _____ Mud Type starch Viscosity 41 Weight 9.7 Water Loss 13.6 cc. Maximum Temp. 113 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 3327 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 700 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 38 ft.

Remarks Gas to surface in 25 minutes too small to measure

WESTERN TESTING CO., INC.
Pressure Data

Date 4-4-69 Recorder No. 3085 Capacity 4500 Test Ticket No. 10990
 Clock No. 6866 Elevation 2053 Derrick Floor Location 4056 Ft. _____
 Well Temperature 113 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------|--------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2260</u> | P.S.I. | <u>3:36P</u> | M |
| B First Initial Flow Pressure | <u>9</u> | P.S.I. | <u>30</u> Mins. | <u>29</u> Mins. |
| C First Final Flow Pressure | <u>10</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>31</u> | P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>10</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>10</u> | P.S.I. | | |
| G Final Closed-in Pressure | <u>30</u> | P.S.I. | | |
| H Final Hydrostatic Mud | <u>2250</u> | P.S.I. | | |

PRESSURE BREAKDOWN

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

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

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

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

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| P 1 <u>0</u> | <u>9</u> | <u>0</u> | <u>10</u> | <u>0</u> | <u>10</u> | <u>0</u> | <u>10</u> |
| P 2 <u>5</u> | <u>9</u> | <u>3</u> | <u>12</u> | <u>5</u> | <u>10</u> | <u>3</u> | <u>10</u> |
| P 3 <u>10</u> | <u>9</u> | <u>6</u> | <u>14</u> | <u>10</u> | <u>10</u> | <u>3</u> | <u>10</u> |
| P 4 <u>15</u> | <u>9</u> | <u>9</u> | <u>15</u> | <u>15</u> | <u>10</u> | <u>9</u> | <u>12</u> |
| P 5 <u>20</u> | <u>9</u> | <u>12</u> | <u>20</u> | <u>20</u> | <u>10</u> | <u>12</u> | <u>14</u> |
| P 6 <u>25</u> | <u>10</u> | <u>15</u> | <u>22</u> | <u>25</u> | <u>10</u> | <u>15</u> | <u>18</u> |
| P 7 <u>29</u> | <u>10</u> | <u>18</u> | <u>23</u> | <u>30</u> | <u>10</u> | <u>18</u> | <u>18</u> |
| P 8 _____ | | <u>21</u> | <u>25</u> | <u>35</u> | <u>10</u> | <u>21</u> | <u>20</u> |
| P 9 _____ | | <u>24</u> | <u>27</u> | <u>40</u> | <u>10</u> | <u>24</u> | <u>22</u> |
| P10 _____ | | <u>27</u> | <u>30</u> | <u>45</u> | <u>10</u> | <u>21</u> | <u>26</u> |
| P11 _____ | | <u>30</u> | <u>31</u> | <u>50</u> | <u>10</u> | <u>30</u> | <u>30</u> |
| P12 _____ | | | | <u>55</u> | <u>10</u> | | |
| P13 _____ | | | | <u>60</u> | <u>10</u> | | |
| P14 _____ | | | | | | | |
| P15 _____ | | | | | | | |
| P16 _____ | | | | | | | |
| P17 _____ | | | | | | | |
| P18 _____ | | | | | | | |
| P19 _____ | | | | | | | |
| P20 _____ | | | | | | | |