



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

Company A. L. Abercrombie Inc. Lease & Well No. Pike #1
Elevation 1582 Kelly Bushings Formation Elgin Effective Pay _____ Ft. Ticket No. 18174
Date 11-16-73 Sec. 26 Twp. 31S Range 12W County Barber State Kansas
Test Approved by Harold Steincamp Western Representative Lyle Cason Sr.

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3400' to 3470' Total Depth 3470'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes _____ No _____ Conv. B.T. Damaged Yes _____ No _____
Top Packer Depth 3395 Ft. Size 6 3/4" Bottom Packer Depth 3400 Ft. Size 6 3/4"
Straddle No Conv. _____ B.T. _____ Damaged Yes _____ No _____ Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" O.D. Tool Joint Size 4 1/2" F.H. Anchor Length 70 Ft. Size 5 1/2" O.D. & D. P. _____ Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3402 Ft. Clock No. 8476 Depth 3405 Ft. Clock No. 9102
Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3473 ~~Inside~~ Outside
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ ~~Inside~~ Outside Depth _____ Ft. Rec. No. _____ Clock No. _____ ~~Inside~~ Outside

Time Set Packer 3:43 P.M.
Tool Open I.F.P. From 3:45 M. to 4:00P M. Hr. 15 Min. From (B) 108 P.S.I. To (C) 235 P.S.I.
Tool Closed I.C.I.P. From 4:00 M. to 4:45P M. Hr. 45 Min (D) 856 P.S.I.
Tool Open F.F.P. From 4:45 M. to 5:45P M. Hr. 60 Min. From (E) 256 P.S.I. To (F) 528 P.S.I.
Tool Closed F.C.I.P. From 5:45 M. to 6:30P M. Hr. 45 Min. (G) 826 P.S.I.
Initial Hydrostatic Pressure (A) 1828 P.S.I. Final Hydrostatic Pressure (H) 1790 P.S.I. Maximum Temp. 105

INFORMATION

BLOW Fair throughout test
Did Well Flow Yes No _____ Recovery Total Ft. 1260 feet salt water

Reversed Out Yes _____ No _____ Mud Type Chem. Viscosity 38 Weight 9.9 Water Loss 11 cc. Chlorides _____
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size _____ In. Make _____ Ser. No. _____
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? _____

DRILLING CONTRACTOR _____ Length Drill Pipe? 2673 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size _____ In.
Length Weight Pipe 390 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size _____ In. Length Drill Collars 300 Ft. I.D. Drill Collars 2.25 In.
Tool Joint Size _____ In. Length D.S.T. Tool 38' Ft. & 2 joints drill pipe

Remarks: _____
FORM WTC 3

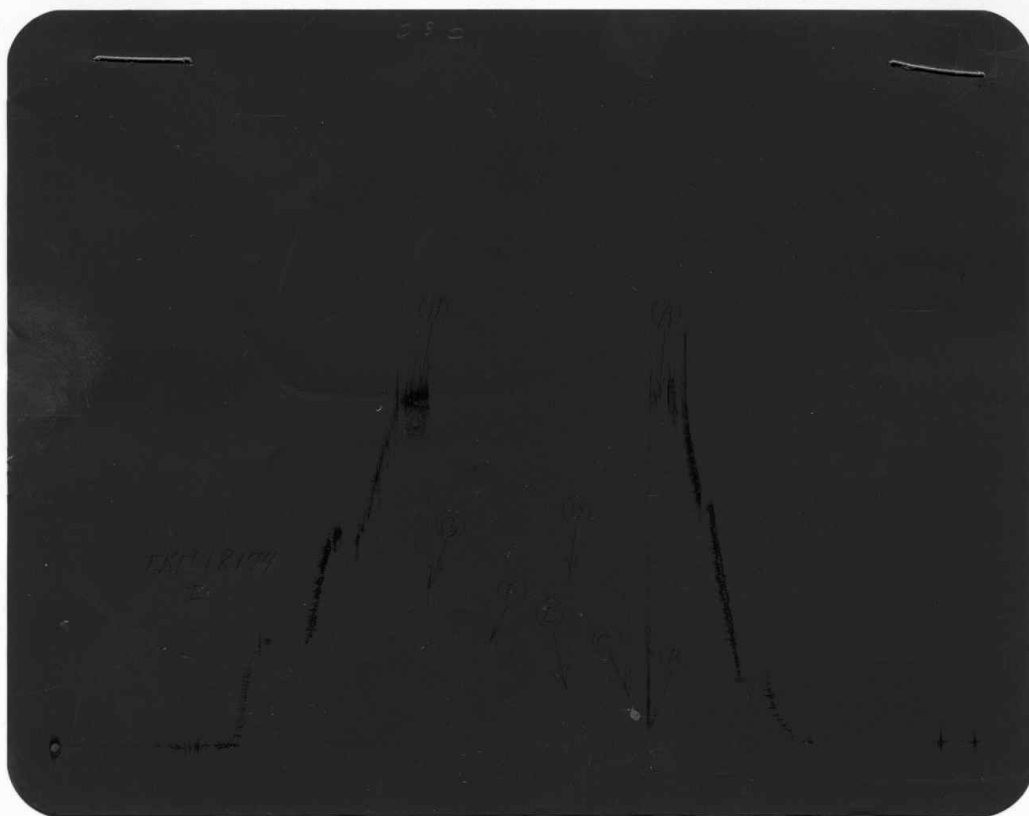
WESTERN TESTING CO., INC.
Pressure Data

Date 11-16-73 Test Ticket No. 18174
 Recorder No. 969 Capacity 4150 Location 3402 Ft.
 Clock No. 8476 Elevation 1582 Kelly Bushings Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1828</u>	P.S.I.	<u>3:45 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>108</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>235</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>856</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>256</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>528</u>	P.S.I.		
G Final Closed-in Pressure	<u>826</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1790</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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>108</u>	<u>0</u>	<u>235</u>	<u>0</u>	<u>256</u>	<u>0</u>	<u>528</u>
P 2 <u>5</u>	<u>139</u>	<u>3</u>	<u>745</u>	<u>5</u>	<u>290</u>	<u>3</u>	<u>751</u>
P 3 <u>10</u>	<u>204</u>	<u>6</u>	<u>778</u>	<u>10</u>	<u>336</u>	<u>6</u>	<u>772</u>
P 4 <u>15</u>	<u>235</u>	<u>9</u>	<u>803</u>	<u>15</u>	<u>379</u>	<u>9</u>	<u>788</u>
P 5		<u>12</u>	<u>813</u>	<u>20</u>	<u>403</u>	<u>12</u>	<u>799</u>
P 6		<u>15</u>	<u>825</u>	<u>25</u>	<u>420</u>	<u>15</u>	<u>801</u>
P 7		<u>18</u>	<u>829</u>	<u>30</u>	<u>438</u>	<u>18</u>	<u>805</u>
P 8		<u>21</u>	<u>833</u>	<u>35</u>	<u>452</u>	<u>21</u>	<u>809</u>
P 9		<u>24</u>	<u>833</u>	<u>40</u>	<u>471</u>	<u>24</u>	<u>811</u>
P10		<u>27</u>	<u>833</u>	<u>45</u>	<u>487</u>	<u>27</u>	<u>813</u>
P11		<u>30</u>	<u>833</u>	<u>50</u>	<u>500</u>	<u>30</u>	<u>815</u>
P12		<u>33</u>	<u>833</u>	<u>55</u>	<u>514</u>	<u>33</u>	<u>818</u>
P13		<u>36</u>	<u>842</u>	<u>60</u>	<u>528</u>	<u>36</u>	<u>820</u>
P14		<u>39</u>	<u>848</u>			<u>39</u>	<u>822</u>
P15		<u>42</u>	<u>852</u>			<u>42</u>	<u>824</u>
P16		<u>45</u>	<u>856</u>			<u>45</u>	<u>826</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1837	1828	PSI
(B) First Initial Flow Pressure	112	108	PSI
(C) First Final Flow Pressure	235	235	PSI
(D) Initial Closed-in Pressure	870	856	PSI
(E) Second Initial Flow Pressure	266	256	PSI
(F) Second Final Flow Pressure	542	528	PSI
(G) Final Closed-in Pressure	827	826	PSI
(H) Final Hydrostatic Mud	1832	1790	PSI



Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Fike #1
Elevation 1582 Kelly Bushings Formation Mississippian Effective Pay -- Ft. Ticket No. 17756
Date 11-21-73 Sec. 26 Twp. 31S Range 12W County Barber State Kansas
Test Approved by Harold Steincamp Western Representative Dean Blagrove

Formation Test No. 2 O.K. Misrun Interval Tested From 4272' to 4305' Total Depth 4305'
Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4267 Ft. Size 6 3/4" Bottom Packer Depth 4272 Ft. Size 6 3/4"
Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5 1/2"OD Tool Joint Size 4 1/2"FH Anchor Length 33 Ft. Size 5 1/2"OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4296 Ft. Clock No. 6897 Depth 4299 Ft. Clock No. 6866
Top Make Kuster Cap. 6600 No. 1564 ~~Inside~~ Outside Bottom Make Kuster Cap. 6200 No. 1563 ~~Inside~~ Outside
Below Straddle: Depth Rec. No. Clock No. ~~Inside~~ Outside Depth Ft. Rec. No. Clock No. ~~Inside~~ Outside

Time Set Packer 7:29 A. M
Tool Open I.F.P. From 7:31 M. to 7:46 A.M. Hr. 15 Min. From (B) 77 P.S.I. To (C) 77 P.S.I.
Tool Closed I.C.I.P. From 7:46 M. to 8:31 A.M. Hr. 45 Min (D) 450 P.S.I.
Tool Open F.F.P. From 8:31 M. to 9:31 A.M. 1 Hr. 00 Min. From (E) 80 P.S.I. To (F) 80 P.S.I.
Tool Closed F.C.I.P. From 9:31 M. to 10:46 A.M. Hr. 45 Min. (G) 325 P.S.I.
Initial Hydrostatic Pressure (A) 2387 P.S.I. Final Hydrostatic Pressure (H) 2386 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Good immediately after open decreased to weak and intermittent

Did Well Flow Yes No Recovery Total Ft. 75 feet gassy mud

Reversed Out Yes No Mud Type Starch Viscosity 44 Weight 10.1 Water Loss 9.6 cc. Chlorides --

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size No In. Make -- Ser. No. --

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? --

DRILLING CONTRACTOR Length Drill Pipe? 3685 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size XXXX In.

Length Weight Pipe 455 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size -- In. Length Drill Collars 140 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size -- In. Length D.S.T. Tool 51 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date November 21, 1973 Test Ticket No. 17756
 Recorder No. 1564 Capacity 6600 Location 4296 Ft.
 Clock No. 6897 Elevation 1582 Kelly Bushings Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2387</u> P.S.I.	Open Tool	<u>7:29</u> A. M.	
B First Initial Flow Pressure	<u>77</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>77</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>450</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>80</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>80</u> P.S.I.			
G Final Closed-in Pressure	<u>325</u> P.S.I.			
H Final Hydrostatic Mud	<u>2386</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>16</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>77</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>80</u>
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>96</u>	<u>5</u>	<u>80</u>	<u>3</u>	<u>93</u>
P 3 <u>10</u>	<u>77</u>	<u>6</u>	<u>135</u>	<u>10</u>	<u>80</u>	<u>6</u>	<u>103</u>
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>161</u>	<u>15</u>	<u>80</u>	<u>9</u>	<u>115</u>
P 5 _____	_____	<u>12</u>	<u>190</u>	<u>20</u>	<u>80</u>	<u>12</u>	<u>135</u>
P 6 _____	_____	<u>15</u>	<u>222</u>	<u>25</u>	<u>80</u>	<u>15</u>	<u>151</u>
P 7 _____	_____	<u>18</u>	<u>251</u>	<u>30</u>	<u>80</u>	<u>18</u>	<u>167</u>
P 8 _____	_____	<u>21</u>	<u>280</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>186</u>
P 9 _____	_____	<u>24</u>	<u>305</u>	<u>40</u>	<u>80</u>	<u>24</u>	<u>199</u>
P10 _____	_____	<u>27</u>	<u>331</u>	<u>45</u>	<u>80</u>	<u>27</u>	<u>218</u>
P11 _____	_____	<u>30</u>	<u>360</u>	<u>50</u>	<u>80</u>	<u>30</u>	<u>235</u>
P12 _____	_____	<u>33</u>	<u>383</u>	<u>55</u>	<u>80</u>	<u>33</u>	<u>248</u>
P13 _____	_____	<u>36</u>	<u>402</u>	<u>60</u>	<u>80</u>	<u>36</u>	<u>264</u>
P14 _____	_____	<u>39</u>	<u>428</u>	_____	_____	<u>39</u>	<u>281</u>
P15 _____	_____	<u>42</u>	<u>450</u>	_____	_____	<u>42</u>	<u>296</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>312</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>325</u>
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2389	2387	PSI
(B) First Initial Flow Pressure	80	77	PSI
(C) First Final Flow Pressure	80	77	PSI
(D) Initial Closed-in Pressure	450	450	PSI
(E) Second Initial Flow Pressure	80	80	PSI
(F) Second Final Flow Pressure	80	80	PSI
(G) Final Closed-in Pressure	322	325	PSI
(H) Final Hydrostatic Mud	2389	2386	PSI



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

Company Abercrombie Drilling Inc. Lease & Well No. Pike #1
Elevation 1582 Kelly Bushings Formation Mississippian Effective Pay --- Ft. Ticket No. 17757
Date 11-21-73 Sec. 26 Twp. 31S Range 12W County Barber State Kansas
Test Approved by Harold Steincamp Western Representative Dean Blagrave

Formation Test No. 3 O.K. Misrun Interval Tested From 4305' to 4330' Total Depth 4330'
Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4300 Ft. Size 6 3/4" Bottom Packer Depth 4305 Ft. Size 6 3/4"
Straddle No Conv. B.T. Damaged Yes No Packer Depth --- Ft. Size ---
Tool Size 5 1/2"OD Tool Joint Size 4 1/2"FH Anchor Length 25 Ft. Size 5 1/2"OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4321 Ft. Clock No. 6897 Depth 4324 Ft. Clock No. 6866
Top Make Kuster Cap. 6600 No. 1564 Inside Outside Bottom Make Kuster Cap. 6200 No. 1563 Inside Outside
Below Straddle: Depth --- Rec. No. --- Clock No. --- Inside Outside Depth --- Ft. Rec. No. --- Clock No. --- Inside Outside

Time Set Packer 10:05 P. M.
Tool Open I.F.P. From 10:08 M. to 10:23 P. M. Hr. 15 Min. From (B) 74 P.S.I. To (C) 74 P.S.I.
Tool Closed I.C.I.P. From 10:23 M. to 10:53 P. M. Hr. 30 Min (D) 86 P.S.I.
Tool Open F.F.P. From 10:53 M. to 11:23 P. M. Hr. 30 Min. From (E) 74 P.S.I. To (F) 74 P.S.I.
Tool Closed F.C.I.P. From 11:23 M. to 11:53 P. M. Hr. 30 Min. (G) 86 P.S.I.
Initial Hydrostatic Pressure (A) 2432 P.S.I. Final Hydrostatic Pressure (H) 2419 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Weak for 3 minutes then died
Did Well Flow Yes No Recovery Total Ft. 15 feet Mud

Reversed Out Yes No Mud Type Starch Viscosity 43 Weight 9.5 Water Loss 13.2 cc. Chlorides ---
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size No In. Make --- Ser. No. ---
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? ---

DRILLING CONTRACTOR --- Length Drill Pipe? 3685 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size --- In.
Length Weight Pipe 455 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size --- In. Length Drill Collars 170 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size --- In. Length D.S.T. Tool 43 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date November 21, 1973 Test Ticket No. 17757
 Recorder No. 1564 Capacity 6600 Location 4321 Ft.
 Clock No. 6897 Elevation 1582 Kelly Bushings Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2432</u> P.S.I.	Open Tool	<u>10:05</u> P. M.	
B First Initial Flow Pressure	<u>74</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>74</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>86</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>74</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>74</u> P.S.I.			
G Final Closed-in Pressure	<u>86</u> P.S.I.			
H Final Hydrostatic Mud	<u>2419</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 8 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: 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 <u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>74</u>
P 3 <u>10</u>	<u>74</u>	<u>6</u>	<u>75</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>75</u>
P 4 <u>15</u>	<u>74</u>	<u>9</u>	<u>76</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>76</u>
P 5 _____	_____	<u>12</u>	<u>77</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>77</u>
P 6 _____	_____	<u>15</u>	<u>78</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>78</u>
P 7 _____	_____	<u>18</u>	<u>79</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>79</u>
P 8 _____	_____	<u>21</u>	<u>80</u>	_____	_____	<u>21</u>	<u>80</u>
P 9 _____	_____	<u>24</u>	<u>82</u>	_____	_____	<u>24</u>	<u>82</u>
P10 _____	_____	<u>27</u>	<u>84</u>	_____	_____	<u>27</u>	<u>84</u>
P11 _____	_____	<u>30</u>	<u>86</u>	_____	_____	<u>30</u>	<u>86</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

