

Company Hawkins Oil & Gas, Inc. Lease & Well No. Loomis # "A"2
Elevation 1226 Kelly Bushing Formation Kansas City Effective Pay ----- Ft. Ticket No. 3610
Date 2/10/80 Sec. 21 Twp. 27S Range 4E County Butler State Kansas
Test Approved by Bill Johnson Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 1961 ft. to 1987 ft. Total Depth 1987 ft.

Packer Depth 1961 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1956 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1972 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 1977 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor White & Ellis Drilling Rig #5 Drill Collar Length 344 I. D. - in.

Mud Type chemical Viscosity 63 Weight Pipe Length - I. D. - in.

Weight 87 Water Loss 36 cc. Drill Pipe Length 1596 I. D. - in.

Chlorides 7,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make -- Serial Number - Anchor Length 26 ft. Size 5 1/2 in.

Did 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 IF in.

Blow: Weak blow throughout first flow. Weak blow throughout second flow.

Recovered 90 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:50 ~~A.M.~~ P.M. Time Started Off Bottom 6:50 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure (A) 899 P.S.I.

Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period Minutes 30 (D) 485 P.S.I.

Final Flow Period Minutes 60 (E) 60 P.S.I. to (F) 77 P.S.I.

Final Closed In Period Minutes 60 (G) 482 P.S.I.

Final Hydrostatic Pressure (H) 898 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/10/80 Test Ticket No. 3610
 Recorder No. 6234 Capacity 4500 Location 1972 Ft.
 Clock No. - Elevation 1226 Kelly Bushing Well Temperature - °F

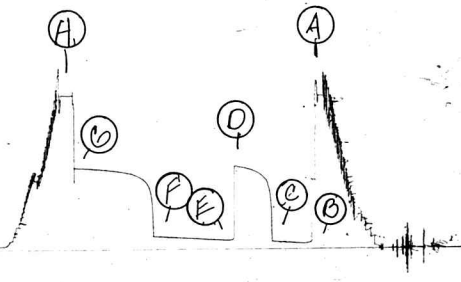
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	899 P.S.I.	3:50P	M
B First Initial Flow Pressure	41 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	44 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	485 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	60 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	77 P.S.I.		
G Final Closed-in Pressure	482 P.S.I.		
H Final Hydrostatic Mud	898 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>12</u> Inc.		Breakdown: <u>20</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>41</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>32</u>	<u>3</u>	<u>319</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>330</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>401</u>	<u>10</u>	<u>54</u>	<u>6</u>	<u>383</u>
P 4 <u>15</u>	<u>37</u>	<u>9</u>	<u>424</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>411</u>
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>444</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>427</u>
P 6 <u>25</u>	<u>41</u>	<u>15</u>	<u>456</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>438</u>
P 7 <u>30</u>	<u>44</u>	<u>18</u>	<u>466</u>	<u>30</u>	<u>63</u>	<u>18</u>	<u>447</u>
P 8		<u>21</u>	<u>474</u>	<u>35</u>	<u>65</u>	<u>21</u>	<u>452</u>
P 9		<u>24</u>	<u>479</u>	<u>40</u>	<u>68</u>	<u>24</u>	<u>456</u>
P10		<u>27</u>	<u>482</u>	<u>45</u>	<u>71</u>	<u>27</u>	<u>461</u>
P11		<u>30</u>	<u>485</u>	<u>50</u>	<u>73</u>	<u>30</u>	<u>463</u>
P12				<u>55</u>	<u>75</u>	<u>33</u>	<u>466</u>
P13				<u>60</u>	<u>77</u>	<u>36</u>	<u>468</u>
P14						<u>39</u>	<u>471</u>
P15						<u>42</u>	<u>473</u>
P16						<u>45</u>	<u>475</u>
P17						<u>48</u>	<u>477</u>
P18						<u>51</u>	<u>479</u>
P19						<u>54</u>	<u>480</u>
P20						<u>57</u>	<u>481</u>
						<u>60</u>	<u>482</u>

6234
3610

TKL #3610
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Company Hawkins Oil & Gas, Inc. Lease & Well No. Loomis "A" #2
Elevation 1226 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 3611
Date 2/11/80 Sec. 21 Twp. 27S Range 4E County Butler State Kansas
Test Approved by Bill Johnson Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 2002 ft. to 2024 ft. Total Depth 2024 ft.

Packer Depth 2002 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1997 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2013 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 2018 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor White & Ellis Drilling Rig #5 Drill Collar Length 344 I. D. - in.

Mud Type chemical Viscosity 63 Weight Pipe Length -- I. D. - in.

Weight 8.7 Water Loss 36 cc. Drill Pipe Length 1637 I. D. - in.

Chlorides 1,000 P.P.M. Test Tool Length 21 ft. Tool Size - in.

Jars: Make - Serial Number - Anchor Length 22 ft. Size - in.

Did Well Flow? No 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 in.

Blow: Fair blow throughout first flow. Fair blow throughout second flow.

Recovered 300 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:15 A.M. Time Started Off Bottom 9:15 A.M. Maximum Temperature ?

Initial Hydrostatic Pressure (A) 946 P.S.I.

Initial Flow Period Minutes 30 (B) 34 P.S.I. to (C) 64 P.S.I.

Initial Closed In Period Minutes 30 (D) 385 P.S.I.

Final Flow Period Minutes 65 (E) 92 P.S.I. to (F) 151 P.S.I.

Final Closed In Period Minutes 60 (G) 388 P.S.I.

Final Hydrostatic Pressure (H) 914 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/11/80 Recorder No. 6234 Capacity 4500 Test Ticket No. 3611
 Clock No. ----- Elevation 1226 Kelly Bushing Location 2013 Ft. -----
 Well Temperature ----- °F

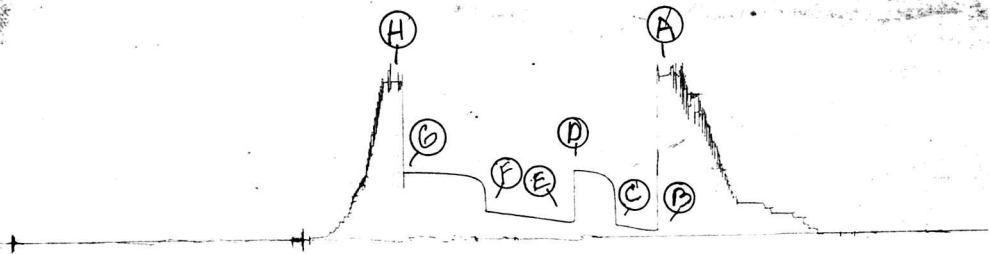
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>946</u> P.S.I.	<u>6:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>34</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>64</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>385</u> P.S.I.	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>92</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>151</u> P.S.I.		
G Final Closed-in Pressure	<u>388</u> P.S.I.		
H Final Hydrostatic Mud	<u>914</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>13</u> Inc.		Breakdown: <u>20</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>34</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>151</u>
P 2 <u>5</u>	<u>28</u>	<u>3</u>	<u>317</u>	<u>5</u>	<u>83</u>	<u>3</u>	<u>323</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>342</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>344</u>
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>352</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>353</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>368</u>	<u>20</u>	<u>101</u>	<u>12</u>	<u>361</u>
P 6 <u>25</u>	<u>57</u>	<u>15</u>	<u>374</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>365</u>
P 7 <u>30</u>	<u>64</u>	<u>18</u>	<u>378</u>	<u>30</u>	<u>115</u>	<u>18</u>	<u>368</u>
P 8		<u>21</u>	<u>381</u>	<u>35</u>	<u>121</u>	<u>21</u>	<u>371</u>
P 9		<u>24</u>	<u>384</u>	<u>40</u>	<u>127</u>	<u>24</u>	<u>374</u>
P10		<u>27</u>	<u>385</u>	<u>45</u>	<u>133</u>	<u>27</u>	<u>376</u>
P11		<u>30</u>	<u>385</u>	<u>50</u>	<u>139</u>	<u>30</u>	<u>378</u>
P12				<u>55</u>	<u>144</u>	<u>33</u>	<u>379</u>
P13				<u>60</u>	<u>149</u>	<u>36</u>	<u>380</u>
P14				<u>65</u>	<u>151</u>	<u>39</u>	<u>381</u>
P15						<u>42</u>	<u>382</u>
P16						<u>45</u>	<u>384</u>
P17						<u>48</u>	<u>386</u>
P18						<u>51</u>	<u>388</u>
P19						<u>54</u>	<u>388</u>
P20						<u>57</u>	<u>388</u>
						<u>60</u>	<u>388</u>

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3611

TRK # 3611
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Company Hawkins Oil & Gas, Inc. Lease & Well No. Loomis "A" #2
 Elevation 1226 KellyBushing Formation Arbuckle Effective Pay - Ft. Ticket No. 3612
 Date 2/12/80 Sec. 21 Twp. 27S Range 4E County Butler State Kansas
 Test Approved by Bill Johnson Western Representative Kenny Kirkendall
 Formation Test No. 3 Interval Tested from 2336 ft. to 2351 ft. Total Depth 2351 ft.
 Packer Depth 2336 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2331 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2342 ft. Recorder Number 6234 Cap. 4500
 Bottom Recorder Depth (Outside) 2347 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drilling Rig #5 Drill Collar Length 344 I. D. - in.
 Mud Type chemical Viscosity 37 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 18 cc. Drill Pipe Length 1591 I. D. - in.
 Chlorides 900 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number - Anchor Length 15 ft. Size 5 1/2 in.
 Did 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 IF in.

Blow: Weak blow throughout first flow. Weak to fair blow throughout second flow.

Recovered 160 ft. of free oil
 Recovered 25 ft. of oil cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:55 A.M. Time Started Off Bottom 12:55 A.M. Maximum Temperature =
 Initial Hydrostatic Pressure 1104 P.S.I.
 Initial Flow Period 30 Minutes (B) 37 P.S.I. to (C) 38 P.S.I.
 Initial Closed In Period 30 Minutes (D) 887 P.S.I.
 Final Flow Period 60 Minutes (E) 60 P.S.I. to (F) 87 P.S.I.
 Final Closed In Period 60 Minutes (G) 887 P.S.I.
 Final Hydrostatic Pressure 1097 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/12/80 Recorder No. 6234 Capacity 4500 Test Ticket No. 3612
 Location 2342 Ft. -
 Clock No. - Elevation 1226 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1104 P.S.I.	Open Tool	9:55A M	
B First Initial Flow Pressure	37 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	38 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	887 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	87 P.S.I.			
G Final Closed-in Pressure	887 P.S.I.			
H Final Hydrostatic Mud	1097 P.S.I.			

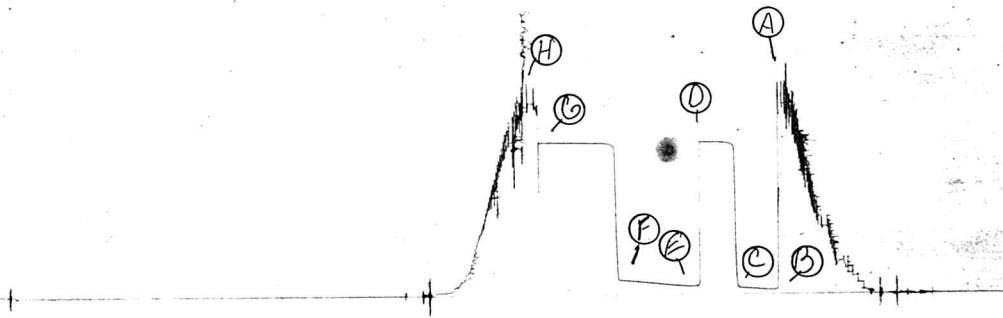
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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 0	37	0	38	0	60	0	87
P 2 5	28	3	538	5	48	3	746
P 3 10	31	6	878	10	50	6	876
P 4 15	32	9	883	15	51	9	881
P 5 20	34	12	887	20	57	12	883
P 6 25	36	15	887	25	62	15	883
P 7 30	38	18	887	30	67	18	883
P 8		21	887	35	71	21	883
P 9		24	887	40	76	24	885
P10		27	887	45	78	27	887
P11		30	887	50	82	30	887
P12				55	85	33	887
P13				60	87	36	887
P14						39	887
P15						42	887
P16						45	887
P17						48	887
P18						51	887
P19						54	887
P20						57	887
						60	887

TKL# 3612
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Company Hawkins Oil & Gas, Inc. Lease & Well No. Loomis "A" #2
1226 Kelly Bushing Arbuckle Effective Pay --- Ft. Ticket No. 3613
 Elevation 2/12/80 Formation 21 27S 4E County Butler State Kansas
 Date 2/12/80 Sec. 21 Twp. 27S Range 4E County Butler State Kansas
 Test Approved by Bill Johnson Western Representative Kenny Kirkendall
 Formation Test No. 4 Interval Tested from 2351 ft. to 2370 ft. Total Depth 2370 ft.
 Packer Depth 2351 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.
 Packer Depth 2346 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.
 Depth of Selective Zone Set 0
 Top Recorder Depth (Inside) 2357 ft. Recorder Number 6234 Cap. 4500
 Bottom Recorder Depth (Outside) 2365 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -
 Drilling Contractor White & Ellis Drilling Drill Collar Length 344 I. D. - in.
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 18 cc. Drill Pipe Length 1986 I. D. - in.
 Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size - in.
 Jars: Make - Serial Number - Anchor Length 19 ft. Size -- 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 IF in.

Blow: Good blow throughout first flow. Good blow throughout second flow.

Recovered 660 ft. of heavy oil and gas cut mud 50% oil; 20% water; 30% mud

Recovered 1336 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Fluid sixth stand, oil and gas cut mud. Close back in until daylight.

Time Set Packer(s) 10:25 ~~A.M.~~ P.M. Time Started Off Bottom 1:25 ~~A.M.~~ P.M. Maximum Temperature =
 Initial Hydrostatic Pressure 1149 P.S.I.
 Initial Flow Period 30 Minutes (B) 80 P.S.I. to (C) 493 P.S.I.
 Initial Closed In Period 30 Minutes (D) 876 P.S.I.
 Final Flow Period 60 Minutes (E) 516 P.S.I. to (F) 831 P.S.I.
 Final Closed In Period 60 Minutes (G) 891 P.S.I.
 Final Hydrostatic Pressure 1133 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 2/12/80 Test Ticket No. 3613
 Recorder No. 6234 Capacity 4500 Location 2357 Ft.
 Clock No. ----- Elevation 1226 Kelly Bushing Well Temperature - °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1149 P.S.I.	10:25P	M
B First Initial Flow Pressure	80 P.S.I.	30	30
C First Final Flow Pressure	493 P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	876 P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	516 P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	831 P.S.I.		
G Final Closed-in Pressure	891 P.S.I.		
H Final Hydrostatic Mud	1133 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>12</u> Inc.		Breakdown: <u>20</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>	80	<u>0</u>	493	<u>0</u>	516	<u>0</u>	831
P 2 <u>5</u>	195	<u>3</u>	848	<u>5</u>	543	<u>3</u>	869
P 3 <u>10</u>	261	<u>6</u>	858	<u>10</u>	586	<u>6</u>	874
P 4 <u>15</u>	330	<u>9</u>	862	<u>15</u>	628	<u>9</u>	877
P 5 <u>20</u>	385	<u>12</u>	865	<u>20</u>	662	<u>12</u>	879
P 6 <u>25</u>	445	<u>15</u>	869	<u>25</u>	696	<u>15</u>	881
P 7 <u>30</u>	493	<u>18</u>	871	<u>30</u>	723	<u>18</u>	882
P 8		<u>21</u>	873	<u>35</u>	748	<u>21</u>	883
P 9		<u>24</u>	874	<u>40</u>	771	<u>24</u>	884
P10		<u>27</u>	875	<u>45</u>	791	<u>27</u>	885
P11		<u>30</u>	876	<u>50</u>	805	<u>30</u>	885
P12				<u>55</u>	818	<u>33</u>	885
P13				<u>60</u>	831	<u>36</u>	885
P14						<u>39</u>	885
P15						<u>42</u>	886
P16						<u>45</u>	887
P17						<u>48</u>	887
P18						<u>51</u>	888
P19						<u>54</u>	888
P20						<u>57</u>	890
						<u>60</u>	891

TR4 # 3613
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