

Company Sanders Oil Company & Con-Am, Inc. Lease & Well No. Baker #1
Elevation 1137 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticker No. 2954
Date 10/1/79 Sec. 1 Twp. 34S Range 3W County Sumner State Kansas
Test Approved by W. Bryce Bidleman Western Representative Vernon Wondra

Formation Test No. 1 Interval Tested from 4167 ft. to 4179 ft. Total Depth 4179 ft.

Packer Depth 4162 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4167 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4160 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 4172 ft. Recorder Number 1563 Cap. 4200

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

Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 30 I. D. 2 1/4 in.

Mud Type starch Viscosity 44 Weight Pipe Length 311 I. D. 2.7 in.

Weight 9.4 Water Loss 18.8 cc. Drill Pipe Length 3805 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 12 ft. Size 5 1/2 OD 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 FH in.

Blow: Weak blow, died in twenty-five minutes on first flow period. Weak blow throughout second opening.

Recovered 45 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:10 = A.M. P.M. Time Started Off Bottom 11:40 A.M. P.M. Maximum Temperature 132

Initial Hydrostatic Pressure (A) 2099 P.S.I.

Initial Flow Period Minutes 30 (B) 36 P.S.I. to (C) 65 P.S.I.

Initial Closed In Period Minutes 60 (D) 166 P.S.I.

Final Flow Period Minutes 60 (E) 38 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 60 (G) 96 P.S.I.

Final Hydrostatic Pressure (H) 2097 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

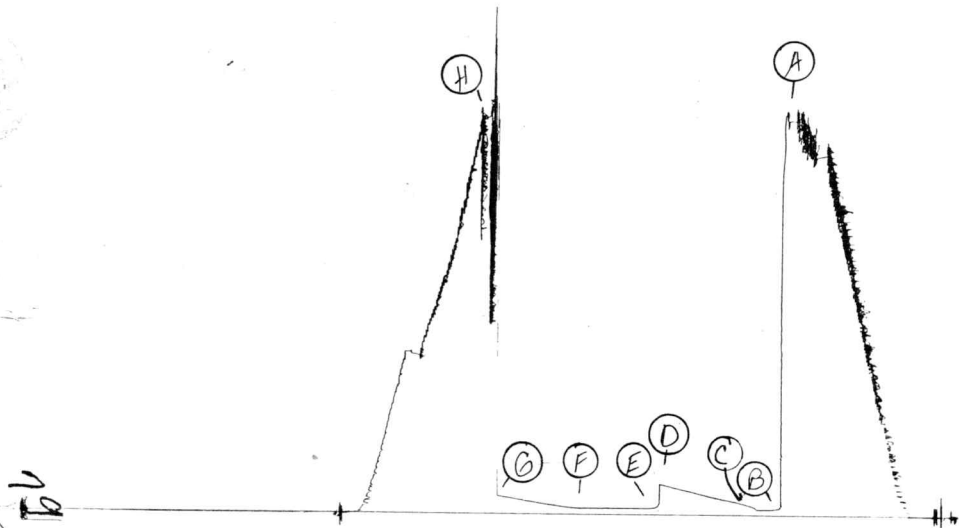
Date 10/1/79 Recorder No. 10979 Capacity 4100 Test Ticket No. 2954
 Clock No. -- Elevation 1137 Kelly Bushing Location 132 Ft. Well Temperature 132 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	2099 P.S.I.		8:10P	M
B First Initial Flow Pressure	36 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	65 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	166 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	38 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	34 P.S.I.			
G Final Closed-in Pressure	96 P.S.I.			
H Final Hydrostatic Mud	2097 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</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>20</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>36</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>69</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>75</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>38</u>
P 4 <u>15</u>	<u>30</u>	<u>9</u>	<u>78</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>40</u>
P 5 <u>20</u>	<u>46</u>	<u>12</u>	<u>83</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>43</u>
P 6 <u>25</u>	<u>56</u>	<u>15</u>	<u>88</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>46</u>
P 7 <u>30</u>	<u>65</u>	<u>18</u>	<u>92</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>50</u>
P 8		<u>21</u>	<u>98</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>54</u>
P 9		<u>24</u>	<u>101</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>58</u>
P10		<u>27</u>	<u>107</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>61</u>
P11		<u>30</u>	<u>113</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>64</u>
P12		<u>33</u>	<u>118</u>	<u>55</u>	<u>34</u>	<u>33</u>	<u>68</u>
P13		<u>36</u>	<u>124</u>	<u>60</u>	<u>34</u>	<u>36</u>	<u>70</u>
P14		<u>39</u>	<u>129</u>			<u>39</u>	<u>76</u>
P15		<u>42</u>	<u>135</u>			<u>42</u>	<u>79</u>
P16		<u>45</u>	<u>141</u>			<u>45</u>	<u>84</u>
P17		<u>48</u>	<u>145</u>			<u>48</u>	<u>86</u>
P18		<u>51</u>	<u>151</u>			<u>51</u>	<u>89</u>
P19		<u>54</u>	<u>158</u>			<u>54</u>	<u>92</u>
P20		<u>57</u>	<u>161</u>			<u>57</u>	<u>93</u>
WTC - 4		<u>60</u>	<u>166</u>			<u>60</u>	<u>96</u>

TKL # 2954
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Company Sanders Oil Company & Con-Am, Inc. Lease & Well No. Baker #1

Elevation 1137 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 2956

Date 10/2/79 Sec. 1 Twp. 34S Range 3W County Sumner State Kansas

Test Approved by W. Bryce Bidleman Western Representative Vernon Wondra

Formation Test No. 2 Interval Tested from 4180 ft. to 4205 ft. Total Depth 4205 ft.

Packer Depth 4175 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4180 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4195 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 4198 ft. Recorder Number 1563 Cap. 4200

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

Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 30 I. D. 2 1/4 in.

Mud Type starch Viscosity 41 Weight Pipe Length 281 I. D. 2.7 in.

Weight 9.2 Water Loss 14.4 cc. Drill Pipe Length 3846 I. D. 3.8 in.

Chlorides 33,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 25 ft. Size 5 1/2 OD 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 FH in.

Blow: Weak blow increased to strong in twenty minutes on first flow period. Strong blow throughout second flow period.

Recovered 120 ft. of muddy water

Recovered 379 ft. of water -chlorides 108,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:55 ~~A.M.~~ P.M. Time Started Off Bottom 12:55 ~~P.M.~~ A.M. Maximum Temperature 132

Initial Hydrostatic Pressure (A) 2135 P.S.I.

Initial Flow Period Minutes 30 (B) 82 P.S.I. to (C) 170 P.S.I.

Initial Closed In Period Minutes 60 (D) 1670 P.S.I.

Final Flow Period Minutes 30 (E) 210 P.S.I. to (F) 254 P.S.I.

Final Closed In Period Minutes 60 (G) 1615 P.S.I.

Final Hydrostatic Pressure (H) 2118 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-2-79

Test Ticket No. 2956

Recorder No. 10979 Capacity 4100 Location 4195 Ft.

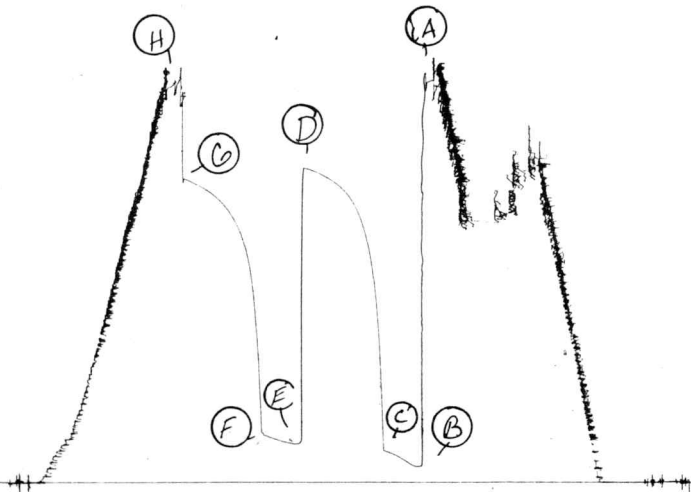
Clock No. - Elevation 1137 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2135	P.S.I.	9:55P.	M
B First Initial Flow Pressure	82	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	170	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1670	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	210	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	254	P.S.I.		
G Final Closed-in Pressure	1615	P.S.I.		
H Final Hydrostatic Mud	2118	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</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>82</u>	<u>0</u>	<u>170</u>	<u>0</u>	<u>210</u>	<u>0</u>	<u>254</u>
P 2 <u>5</u>	<u>86</u>	<u>3</u>	<u>621</u>	<u>5</u>	<u>206</u>	<u>3</u>	<u>579</u>
P 3 <u>10</u>	<u>107</u>	<u>6</u>	<u>897</u>	<u>10</u>	<u>214</u>	<u>6</u>	<u>846</u>
P 4 <u>15</u>	<u>126</u>	<u>9</u>	<u>1084</u>	<u>15</u>	<u>223</u>	<u>9</u>	<u>1050</u>
P 5 <u>20</u>	<u>147</u>	<u>12</u>	<u>1222</u>	<u>20</u>	<u>236</u>	<u>12</u>	<u>1183</u>
P 6 <u>25</u>	<u>160</u>	<u>15</u>	<u>1319</u>	<u>25</u>	<u>245</u>	<u>15</u>	<u>1267</u>
P 7 <u>30</u>	<u>170</u>	<u>18</u>	<u>1393</u>	<u>30</u>	<u>254</u>	<u>18</u>	<u>1329</u>
P 8 _____		<u>21</u>	<u>1449</u>			<u>21</u>	<u>1376</u>
P 9 _____		<u>24</u>	<u>1492</u>			<u>24</u>	<u>1414</u>
P10 _____		<u>27</u>	<u>1521</u>			<u>27</u>	<u>1447</u>
P11 _____		<u>30</u>	<u>1549</u>			<u>30</u>	<u>1474</u>
P12 _____		<u>33</u>	<u>1570</u>			<u>33</u>	<u>1500</u>
P13 _____		<u>36</u>	<u>1588</u>			<u>36</u>	<u>1518</u>
P14 _____		<u>39</u>	<u>1605</u>			<u>39</u>	<u>1533</u>
P15 _____		<u>42</u>	<u>1616</u>			<u>42</u>	<u>1551</u>
P16 _____		<u>45</u>	<u>1627</u>			<u>45</u>	<u>1566</u>
P17 _____		<u>48</u>	<u>1637</u>			<u>48</u>	<u>1578</u>
P18 _____		<u>51</u>	<u>1650</u>			<u>51</u>	<u>1588</u>
P19 _____		<u>54</u>	<u>1658</u>			<u>54</u>	<u>1598</u>
P20 _____		<u>57</u>	<u>1664</u>			<u>57</u>	<u>1607</u>
		<u>60</u>	<u>1670</u>			<u>60</u>	<u>1615</u>

TKL #2956
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to

Company Sanders Oil Company & Con-Am, Inc. Lease & Well No. Baker #1
 Elevation 1137 Kelly Bushing Formation Simpson Effective Pay -- Ft. Ticket No. 3891
 Date 10/5/79 Sec. 1 Twp. 34S Range 3W County Sumner State Kansas
 Test Approved by W. Bryce Bidleman Western Representative W. K. Hager
 Formation Test No. 3 Interval Tested from 4584 ft. to 4605 ft. Total Depth 4605 ft.
 Packer Depth 4579 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4584 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4594 ft. Recorder Number 1558 Cap. 4200
 Bottom Recorder Depth (Outside) 4597 ft. Recorder Number 1559 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 60 I. D. 2 1/4 in.
 Mud Type starch Viscosity 41 Weight Pipe Length 300 I. D. 3 in.
 Weight 9.6 Water Loss 13.6 cc. Drill Pipe Length 4204 I. D. 3.8 in.
 Chlorides 46,000 P.P.M. Test Tool Length 41 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 21 ft. Size 5 1/2 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 FH in.

Blow: Very weak blow, died in fifteen minutes on initial flow period/no blow on final flow period.

Recovered 10 ft. of watery mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks:

Time Set Packer(s) 10:05 ~~A.M.~~ P.M. Time Started Off Bottom 1:05 ~~A.M.~~ P.M. Maximum Temperature 130
 Initial Hydrostatic Pressure 2415 P.S.I.
 Initial Flow Period 30 Minutes (B) 53 P.S.I. to (C) 28 P.S.I.
 Initial Closed In Period 63 Minutes (D) 1343 P.S.I.
 Final Flow Period 30 Minutes (E) 103 P.S.I. to (F) 32 P.S.I.
 Final Closed In Period 93 Minutes (G) 1421 P.S.I.
 Final Hydrostatic Pressure 2320 P.S.I.

WESTERN TESTING CO., INC. **Pressure Data**

Date 10/5/79 Test Ticket No. 3891
 Recorder No. 1558 Capacity 4200 Location 4594 Ft.
 Clock No. -- Elevation 1137 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2415	P.S.I.	10:05P	
B First Initial Flow Pressure	53	P.S.I.	30	30
C First Final Flow Pressure	28	P.S.I.	60	63
D Initial Closed-in Pressure	1343	P.S.I.	30	30
E Second Initial Flow Pressure	103	P.S.I.	60	93
F Second Final Flow Pressure	32	P.S.I.		
G Final Closed-in Pressure	1421	P.S.I.		
H Final Hydrostatic Mud	2320	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 21 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: 31 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>53</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>32</u>
P 2 <u>5</u>	<u>32</u>	<u>3</u>	<u>29</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>26</u>	<u>6</u>	<u>32</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>38</u>
P 4 <u>15</u>	<u>24</u>	<u>9</u>	<u>34</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>42</u>
P 5 <u>20</u>	<u>26</u>	<u>12</u>	<u>42</u>	<u>20</u>	<u>28</u>	<u>12</u>	<u>51</u>
P 6 <u>25</u>	<u>27</u>	<u>15</u>	<u>63</u>	<u>25</u>	<u>30</u>	<u>15</u>	<u>64</u>
P 7 <u>30</u>	<u>28</u>	<u>18</u>	<u>139</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>93</u>
P 8		<u>21</u>	<u>264</u>			<u>21</u>	<u>155</u>
P 9		<u>24</u>	<u>386</u>			<u>24</u>	<u>238</u>
P10		<u>27</u>	<u>509</u>			<u>27</u>	<u>335</u>
P11		<u>30</u>	<u>631</u>			<u>30</u>	<u>427</u>
P12		<u>33</u>	<u>741</u>			<u>33</u>	<u>525</u>
P13		<u>36</u>	<u>845</u>			<u>36</u>	<u>621</u>
P14		<u>39</u>	<u>935</u>			<u>39</u>	<u>706</u>
P15		<u>42</u>	<u>1013</u>			<u>42</u>	<u>785</u>
P16		<u>45</u>	<u>1079</u>			<u>45</u>	<u>854</u>
P17		<u>48</u>	<u>1138</u>			<u>48</u>	<u>918</u>
P18		<u>51</u>	<u>1189</u>			<u>51</u>	<u>975</u>
P19		<u>54</u>	<u>1238</u>			<u>54</u>	<u>1030</u>
P20		<u>57</u>	<u>1280</u>			<u>57</u>	<u>1082</u>
WTC - 4		<u>60</u>	<u>1316</u>			<u>60</u>	<u>1127</u>
		<u>63</u>	<u>1343</u>				

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WESTERN TESTING CO., INC.

Pressure Data

Date 10/5/79 Recorder No. 1558 Capacity 4200 Test Ticket No. 3891
 Clock No. -- Elevation 1137 Kelly Bushing Location 4594 Ft. 130
 Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2415	P.S.I.	10:05P	
B First Initial Flow Pressure	53	P.S.I.	30	30
C First Final Flow Pressure	28	P.S.I.	60	63
D Initial Closed-in Pressure	1343	P.S.I.	30	30
E Second Initial Flow Pressure	103	P.S.I.	60	93
F Second Final Flow Pressure	32	P.S.I.		
G Final Closed-in Pressure	1421	P.S.I.		
H Final Hydrostatic Mud	2320	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>31</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						63	1170
P 2						66	1210
P 3						69	1245
P 4						72	1274
P 5						75	1299
P 6						78	1324
P 7						81	1347
P 8						84	1370
P 9						87	1387
P10						90	1406
P11						93	1421
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TR4# 3891

I.

(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

