

Company National Oil Company Lease & Well No. Schvette #5  
 Elevation ----- Formation Pawnee Effective Pay ----- Ft. Ticket No. 6930  
 Date 9/24/80 Sec. 36 Twp. 31 S Range 16 W County Comanche State KS  
 Test Approved by Walter H. Martz Western Representative Jeff Piotrowski  
 Formation Test No. 1 Interval Tested from 4728 ft. to 4758 ft. Total Depth 4758 ft.  
 Packer Depth 4717 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.  
 Packer Depth 4728 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.  
 Depth of Selective Zone Set -----  
 Top Recorder Depth (Inside) 4731 ft. Recorder Number 5673 Cap. 5400  
 Bottom Recorder Depth (Outside) 4755 ft. Recorder Number 1565 Cap. 4900  
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----  
 Drilling Contractor DaMac Drilling Rig #2 Drill Collar Length 330 I. D. 2.2 in.  
 Mud Type Drispac Viscosity 45 Weight Pipe Length ----- I. D. ----- in.  
 Weight 9.1 Water Loss 7.2 cc. Drill Pipe Length 4363 I. D. 3.8 in.  
 Chlorides 10,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 405 Anchor Length 30 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: Fair blow building to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 560 ft. of Gas in pipe.  
 Recovered 25 ft. of Gas cut mud; few oil specks.  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 11:10 ~~A.M.~~ P.M. Time Started Off Bottom 3:10 ~~A.M.~~ P.M. Maximum Temperature 128° F.  
 Initial Hydrostatic Pressure 2297 (A)        P.S.I.  
 Initial Flow Period 30 Minutes (B) 52 P.S.I. to (C) 44 P.S.I.  
 Initial Closed In Period 57 Minutes (D) 268 P.S.I.  
 Final Flow Period 55 Minutes (E) 55 P.S.I. to (F) 44 P.S.I.  
 Final Closed In Period 87 Minutes (G) 451 P.S.I.  
 Final Hydrostatic Pressure 2278 (H)        P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-24-80 Recorder No. 5673 Capacity 5400 Test Ticket No. 6930 Location 4731 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 128 °F

| Point                          | Pressure           |                            | Time Given       | Time Computed   |
|--------------------------------|--------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2297</u> P.S.I. | Open Tool                  | <u>11:10 A M</u> |                 |
| B First Initial Flow Pressure  | <u>52</u> P.S.I.   | First Flow Pressure        | <u>30</u> Mins.  | <u>30</u> Mins. |
| C First Final Flow Pressure    | <u>44</u> P.S.I.   | Initial Closed-in Pressure | <u>60</u> Mins.  | <u>57</u> Mins. |
| D Initial Closed-in Pressure   | <u>268</u> P.S.I.  | Second Flow Pressure       | <u>60</u> Mins.  | <u>55</u> Mins. |
| E Second Initial Flow Pressure | <u>55</u> P.S.I.   | Final Closed-in Pressure   | <u>90</u> Mins.  | <u>87</u> Mins. |
| F Second Final Flow Pressure   | <u>44</u> P.S.I.   |                            |                  |                 |
| G Final Closed-in Pressure     | <u>451</u> P.S.I.  |                            |                  |                 |
| H Final Hydrostatic Mud        | <u>2278</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>19</u> Inc.   |            | Breakdown: <u>11</u> Inc.   |           | Breakdown: <u>29</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>52</u> | <u>0</u>                    | <u>44</u>  | <u>0</u>                    | <u>55</u> | <u>0</u>                    | <u>44</u>  |
| P 2 <u>5</u>                | <u>44</u> | <u>3</u>                    | <u>60</u>  | <u>5</u>                    | <u>46</u> | <u>3</u>                    | <u>55</u>  |
| P 3 <u>10</u>               | <u>44</u> | <u>6</u>                    | <u>71</u>  | <u>10</u>                   | <u>45</u> | <u>6</u>                    | <u>71</u>  |
| P 4 <u>15</u>               | <u>44</u> | <u>9</u>                    | <u>82</u>  | <u>15</u>                   | <u>44</u> | <u>9</u>                    | <u>90</u>  |
| P 5 <u>20</u>               | <u>44</u> | <u>12</u>                   | <u>93</u>  | <u>20</u>                   | <u>44</u> | <u>12</u>                   | <u>107</u> |
| P 6 <u>25</u>               | <u>44</u> | <u>15</u>                   | <u>107</u> | <u>25</u>                   | <u>44</u> | <u>15</u>                   | <u>126</u> |
| P 7 <u>30</u>               | <u>44</u> | <u>18</u>                   | <u>120</u> | <u>30</u>                   | <u>44</u> | <u>18</u>                   | <u>148</u> |
| P 8 _____                   |           | <u>21</u>                   | <u>134</u> | <u>35</u>                   | <u>44</u> | <u>21</u>                   | <u>158</u> |
| P 9 _____                   |           | <u>24</u>                   | <u>145</u> | <u>40</u>                   | <u>44</u> | <u>24</u>                   | <u>175</u> |
| P10 _____                   |           | <u>27</u>                   | <u>156</u> | <u>45</u>                   | <u>44</u> | <u>27</u>                   | <u>194</u> |
| P11 _____                   |           | <u>30</u>                   | <u>169</u> | <u>50</u>                   | <u>44</u> | <u>30</u>                   | <u>208</u> |
| P12 _____                   |           | <u>33</u>                   | <u>178</u> | <u>55</u>                   | <u>44</u> | <u>33</u>                   | <u>221</u> |
| P13 _____                   |           | <u>36</u>                   | <u>189</u> |                             |           | <u>36</u>                   | <u>237</u> |
| P14 _____                   |           | <u>39</u>                   | <u>202</u> |                             |           | <u>39</u>                   | <u>251</u> |
| P15 _____                   |           | <u>42</u>                   | <u>216</u> |                             |           | <u>42</u>                   | <u>260</u> |
| P16 _____                   |           | <u>45</u>                   | <u>227</u> |                             |           | <u>45</u>                   | <u>276</u> |
| P17 _____                   |           | <u>48</u>                   | <u>238</u> |                             |           | <u>48</u>                   | <u>295</u> |
| P18 _____                   |           | <u>51</u>                   | <u>251</u> |                             |           | <u>51</u>                   | <u>309</u> |
| P19 _____                   |           | <u>54</u>                   | <u>260</u> |                             |           | <u>54</u>                   | <u>325</u> |
| P20 _____                   |           | <u>57</u>                   | <u>268</u> |                             |           | <u>57</u>                   | <u>333</u> |
|                             |           |                             |            |                             |           | <u>60</u>                   | <u>350</u> |

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

Date 9-24-80 Test Ticket No. 6930  
Recorder No. 5673 Capacity 5400 Location 4731 Ft.  
Clock No. ----- Elevation ----- Well Temperature 128 °F

| Point                          | Pressure           |                            | Time Given       | Time Computed  |
|--------------------------------|--------------------|----------------------------|------------------|----------------|
| A Initial Hydrostatic Mud      | <u>2297</u> P.S.I. | Open Tool                  | <u>11:10 A M</u> |                |
| B First Initial Flow Pressure  | <u>52</u> P.S.I.   | First Flow Pressure        | <u>30</u> Mins.  | <u>30</u> Mins |
| C First Final Flow Pressure    | <u>44</u> P.S.I.   | Initial Closed-in Pressure | <u>60</u> Mins.  | <u>57</u> Mins |
| D Initial Closed-in Pressure   | <u>268</u> P.S.I.  | Second Flow Pressure       | <u>60</u> Mins.  | <u>55</u> Mins |
| E Second Initial Flow Pressure | <u>55</u> P.S.I.   | Final Closed-in Pressure   | <u>90</u> Mins.  | <u>87</u> Mins |
| F Second Final Flow Pressure   | <u>44</u> P.S.I.   |                            |                  |                |
| G Final Closed-in Pressure     | <u>451</u> P.S.I.  |                            |                  |                |
| H Final Hydrostatic Mud        | <u>2278</u> P.S.I. |                            |                  |                |

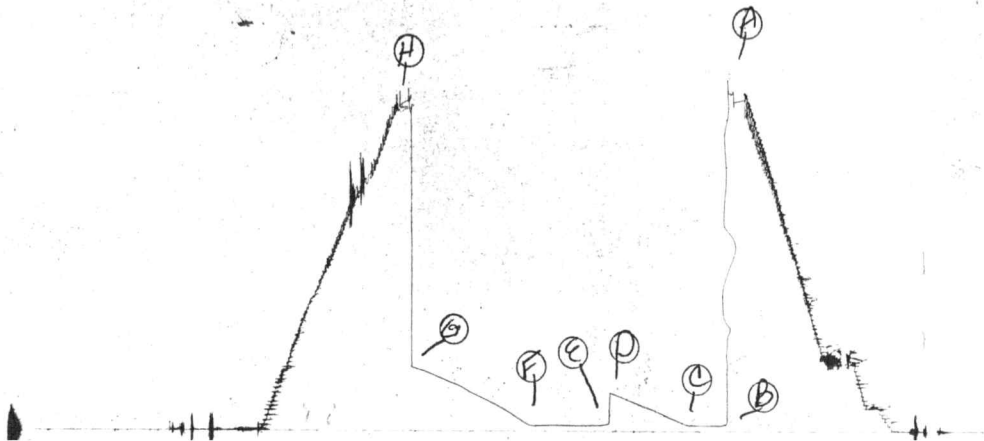
**PRESSURE BREAKDOWN**

| First Flow Pressure<br>Breakdown: <u>6</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. |        | Initial Shut-In<br>Breakdown: <u>19</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. |        | Second Flow Pressure<br>Breakdown: <u>11</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. |        | Final Shut-In<br>Breakdown: <u>29</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. |        |
|-----------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------|--------|
| Point<br>Mins.                                                                                            | Press. | Point<br>Minutes                                                                                       | Press. | Point<br>Minutes                                                                                            | Press. | Point<br>Minutes                                                                                     | Press. |
| P 1                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 63                                                                                                   | 361    |
| P 2                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 66                                                                                                   | 372    |
| P 3                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 69                                                                                                   | 383    |
| P 4                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 72                                                                                                   | 396    |
| P 5                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 75                                                                                                   | 410    |
| P 6                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 78                                                                                                   | 421    |
| P 7                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 81                                                                                                   | 429    |
| P 8                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 84                                                                                                   | 437    |
| P 9                                                                                                       |        |                                                                                                        |        |                                                                                                             |        | 87                                                                                                   | 451    |
| P10                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P11                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P12                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P13                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P14                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P15                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P16                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P17                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P18                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P19                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |
| P20                                                                                                       |        |                                                                                                        |        |                                                                                                             |        |                                                                                                      |        |

5673  
DST #1

SHA #6930

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Company National Oil Company Lease & Well No. Schvette #5  
Elevation 1969 Kelly Bushing Formation Fort Scott Effective Pay ---- Ft. Ticket No. 6931  
Date 9/25/80 Sec. 36 Twp. 31S Range 16W County Comanche State Kansas  
Test Approved by Walter H. Martz Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4760 ft. to 4798 ft. Total Depth 4798 ft.

Packer Depth 4744 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4760 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4763 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4795 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor DaMac Drlg. Drill Collar Length 330 I. D. 2.2 in.

Mud Type drispac Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 4395 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length 38 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: Strong blow throughout test. Gas to surface in fourteen minutes. See attached sheet  
for gas measurements.

Recovered 30 ft. of gas cut mud

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Remarks:       

Time Set Packer(s) 7:30 A.M. P.M. Time Started Off Bottom 10:30 A.M. P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure        (A) 2281 P.S.I.

Initial Flow Period        Minutes 30 (B) 63 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period        Minutes 60 (D) 1024 P.S.I.

Final Flow Period        Minutes 30 (E) 41 P.S.I. to (F) 32 P.S.I.

Final Closed In Period        Minutes 60 (G) 795 P.S.I.

Final Hydrostatic Pressure        (H) 2281 P.S.I.

## GAS FLOW REPORT

Date 9/25/80 Ticket 6931 Company National Oil Company  
 Well Name and No. Schvette #5 Dst No. 2 Interval Tested 4760' - 4798'  
 County Comanche State Kansas Sec. 36 Twp. 31S Rg. 16W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| <b>PRE FLOW</b>     |                    |                                     |                        |                              |                         |                     |
|                     | 20 min.            | 56" of water                        |                        | 1/2" orifice                 |                         | 46,900 CFPD         |
|                     | 30 min.            | 56" of water                        |                        | 1/2" orifice                 |                         | 46,900 CFPD         |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |

|                    |         |              |  |              |  |             |
|--------------------|---------|--------------|--|--------------|--|-------------|
| <b>SECOND FLOW</b> |         |              |  |              |  |             |
|                    | 10 min. | 40" of water |  | 1/2" orifice |  | 39,600 CFPD |
|                    | 20 min. | 34" of water |  | 1/2" orifice |  | 36,500 CFPD |
|                    | 30 min. | 34" of water |  | 1/2" orifice |  | 36,500 CFPD |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |
|                    |         |              |  |              |  |             |

### GAS BOTTLE

Serial No. --- Date Bottle Filled ---- Date to be Invoiced 9/25/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 11½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME National Oil Company  
 Authorized by Walter H. Martz

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-25-80 Test Ticket No. 6931  
 Recorder No. 5673 Capacity 5400 Location 4763 Ft.  
 Clock No. ---- Elevation 1969 Kelly Bushing Well Temperature 128 °F

| Point                          | Pressure           |                            | Time Given       | Time Computed   |
|--------------------------------|--------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2281</u> P.S.I. | Open Tool                  | <u>7:30 A.M.</u> |                 |
| B First Initial Flow Pressure  | <u>63</u> P.S.I.   | First Flow Pressure        | <u>30</u> Mins.  | <u>30</u> Mins. |
| C First Final Flow Pressure    | <u>40</u> P.S.I.   | Initial Closed-in Pressure | <u>60</u> Mins.  | <u>60</u> Mins. |
| D Initial Closed-in Pressure   | <u>1024</u> P.S.I. | Second Flow Pressure       | <u>30</u> Mins.  | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>41</u> P.S.I.   | Final Closed-in Pressure   | <u>60</u> Mins.  | <u>60</u> Mins. |
| F Second Final Flow Pressure   | <u>32</u> P.S.I.   |                            |                  |                 |
| G Final Closed-in Pressure     | <u>795</u> P.S.I.  |                            |                  |                 |
| H Final Hydrostatic Mud        | <u>2281</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>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>63</u> | <u>0</u>                    | <u>40</u>   | <u>0</u>                    | <u>41</u> | <u>0</u>                    | <u>32</u>  |
| P 2 <u>5</u>                | <u>46</u> | <u>3</u>                    | <u>350</u>  | <u>5</u>                    | <u>32</u> | <u>3</u>                    | <u>178</u> |
| P 3 <u>10</u>               | <u>41</u> | <u>6</u>                    | <u>607</u>  | <u>10</u>                   | <u>32</u> | <u>6</u>                    | <u>350</u> |
| P 4 <u>15</u>               | <u>40</u> | <u>9</u>                    | <u>779</u>  | <u>15</u>                   | <u>32</u> | <u>9</u>                    | <u>470</u> |
| P 5 <u>20</u>               | <u>40</u> | <u>12</u>                   | <u>874</u>  | <u>20</u>                   | <u>32</u> | <u>12</u>                   | <u>577</u> |
| P 6 <u>25</u>               | <u>40</u> | <u>15</u>                   | <u>934</u>  | <u>25</u>                   | <u>32</u> | <u>15</u>                   | <u>645</u> |
| P 7 <u>30</u>               | <u>40</u> | <u>18</u>                   | <u>959</u>  | <u>30</u>                   | <u>32</u> | <u>18</u>                   | <u>694</u> |
| P 8 _____                   |           | <u>21</u>                   | <u>975</u>  |                             |           | <u>21</u>                   | <u>721</u> |
| P 9 _____                   |           | <u>24</u>                   | <u>989</u>  |                             |           | <u>24</u>                   | <u>735</u> |
| P10 _____                   |           | <u>27</u>                   | <u>997</u>  |                             |           | <u>27</u>                   | <u>749</u> |
| P11 _____                   |           | <u>30</u>                   | <u>1005</u> |                             |           | <u>30</u>                   | <u>760</u> |
| P12 _____                   |           | <u>33</u>                   | <u>1008</u> |                             |           | <u>33</u>                   | <u>770</u> |
| P13 _____                   |           | <u>36</u>                   | <u>1011</u> |                             |           | <u>36</u>                   | <u>776</u> |
| P14 _____                   |           | <u>39</u>                   | <u>1014</u> |                             |           | <u>39</u>                   | <u>781</u> |
| P15 _____                   |           | <u>42</u>                   | <u>1047</u> |                             |           | <u>42</u>                   | <u>783</u> |
| P16 _____                   |           | <u>45</u>                   | <u>1019</u> |                             |           | <u>45</u>                   | <u>787</u> |
| P17 _____                   |           | <u>48</u>                   | <u>1020</u> |                             |           | <u>48</u>                   | <u>789</u> |
| P18 _____                   |           | <u>51</u>                   | <u>1021</u> |                             |           | <u>51</u>                   | <u>791</u> |
| P19 _____                   |           | <u>54</u>                   | <u>1022</u> |                             |           | <u>54</u>                   | <u>793</u> |
| P20 _____                   |           | <u>57</u>                   | <u>1023</u> |                             |           | <u>57</u>                   | <u>794</u> |
|                             |           | <u>60</u>                   | <u>1024</u> |                             |           | <u>60</u>                   | <u>795</u> |

5673

DST #2

SKA #6931

I

