<p>| | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OWNER</td>
<td>I. C. Thurmon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>SEC.</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>NEAREST TOWN</td>
<td>Elk City</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>STATE</td>
<td>Oklahoma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>NEAREST TOWN</td>
<td>Elk City</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>NEAREST TOWN</td>
<td>Elk City</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>SPILLWAY CREST ELEV.</td>
<td>82.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>STORAGE ALLOCATION</td>
<td>92.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>ELEVATION TOP OF POOL</td>
<td></td>
<td>12.95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>SURFACE AREA ACRES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>STORAGE ACRE-FOOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>ACCUMULATED ACRE-FOOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>DATE STORAGE BEGAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>LENGTH OF RESERVOIR</td>
<td>82.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>LENGTH OF RESERVOIR</td>
<td>82.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>TOTAL DRAINAGE AREA</td>
<td>0.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>NET SEDIMENT CONTRIBUTING AREA</td>
<td>0.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>LENGTH</td>
<td>1.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>MAX. ELEV.</td>
<td>62.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>CLIMATIC CLASSIFICATION</td>
<td>Sub-humid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>DATE OF SURVEY</td>
<td>4-9-51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>DATE OF SURVEY</td>
<td>4-9-51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>TYPE OF SURVEY</td>
<td>Range &amp; Topog.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>NO. OF RANGES OR CONTOUR INT</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>SURFACE AREA ACRES</td>
<td>6.26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>CAPACITY ACRE-FOOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>SEDIMENT DEPOSITS ACRE-FOOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>TOTAL SED. DEPOSITS TO DATE ACRE-FOOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>PERIOD TOTAL</td>
<td>9.28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>AVG. ANNUAL</td>
<td>1.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>AVG. ANNUAL</td>
<td>1.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>AVG. ANNUAL</td>
<td>2.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>AVG. ANNUAL</td>
<td>2.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>AVG. ANNUAL</td>
<td>2.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>AVG. ANNUAL</td>
<td>2.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>AVG. ANNUAL</td>
<td>2.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>AVG. DRY WT.G</td>
<td>70.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>AVG. DRY WT.G</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>AVG. DEP. TONS PER SQ.MI-YR</td>
<td>4266</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

( ) Includes both sed. and flood pool.

1/ Original capacity.
43. Depth designation range in feet above, and below, crest elevation

<table>
<thead>
<tr>
<th>DATE OF SURVEY</th>
<th>92-90</th>
<th>90-86</th>
<th>86-82</th>
<th>82-78</th>
<th>78-74</th>
<th>74-70</th>
<th>70-66</th>
<th>66-62</th>
<th>70-69</th>
</tr>
</thead>
<tbody>
<tr>
<td>1956</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>11</td>
<td>10</td>
<td>14</td>
<td>37</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Oct. 1, 1961</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7.9</td>
<td>18.1</td>
<td>26.7</td>
<td></td>
<td>47.3</td>
<td></td>
</tr>
</tbody>
</table>

44. Reach designation percent of total original length of reservoir

<table>
<thead>
<tr>
<th>DATE OF SURVEY</th>
<th>0-10</th>
<th>10-20</th>
<th>20-30</th>
<th>30-40</th>
<th>40-50</th>
<th>50-60</th>
<th>60-70</th>
<th>70-80</th>
<th>80-90</th>
<th>90-100</th>
<th>-105</th>
<th>-110</th>
<th>-115</th>
<th>-120</th>
<th>-125</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

45. Range in reservoir operation

<table>
<thead>
<tr>
<th>WATER YEAR</th>
<th>MAX. ELEV.</th>
<th>MIN. ELEV.</th>
<th>INFLOW AC.-FT.</th>
<th>WATER YEAR</th>
<th>MAX. ELEV.</th>
<th>MIN. ELEV.</th>
<th>INFLOW AC.-FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

46. Original Capacity

<table>
<thead>
<tr>
<th>ELEVATION</th>
<th>AREA</th>
<th>CAPACITY</th>
<th>ELEVATION</th>
<th>AREA</th>
<th>CAPACITY</th>
<th>ELEVATION</th>
<th>AREA</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.0</td>
<td>12.95</td>
<td>157.68</td>
<td>66.0</td>
<td>1.39</td>
<td>2.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.0</td>
<td>11.06</td>
<td>133.57</td>
<td>62.0</td>
<td>0.14</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>86.0</td>
<td>8.30</td>
<td>95.08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>82.0</td>
<td>6.26</td>
<td>66.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78.0</td>
<td>5.34</td>
<td>42.48</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>74.0</td>
<td>3.90</td>
<td>24.11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70.0</td>
<td>2.80</td>
<td>10.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

47. Remarks and references

Land use: Native pasture 97%, miscellaneous 3%.

Geology: Doxey member of the Quartermaster formation - 100%.
### RESERVOIR SEDIMENT DATA SUMMARY

**Sandstone Site No. 3**

| 1. OWNER | I.C. Thurmon |
| 2. STREAM | Washita |
| 3. STATE | Oklahoma |
| 4. SEC. 15 | TWP. 12-N |
| 5. NEAREST P.O. | Elk City |
| 6. COUNTY | Roger Mills |
| 7. LAT. | "LONG." |
| 8. TOP OF DAM ELEVATION | 96.0 |
| 9. SPILLWAY CREST ELEV. | 92.0 |
| 10. STORAGE ALLOCATION | 92.0 |
| 11. ELEVATION TOP OF POOL | 12.95 |
| 12. ORIGINAL SURFACE AREA, ACRES | 13. ORIGINAL CAPACITY, ACRE-FEET | 14. GROSS STORAGE, ACRE-FEET | 15. DATE STORAGE BEGAN |
| 16. FLOOD CONTROL | 157.68 | 4-9-51 |
| 17. LENGTH OF RESERVOIR | 0.41 | MILES | 0.62 |
| 18. TOTAL DRAINAGE AREA | 19. NET SEDIMENT CONTRIBUTING AREA | 0.61 | SQ. MI. | 22. MEAN ANNUAL PRECIPITATION | 25.00 |
| 20. LENGTH | 1.3 | MILES | 0.48 |
| 21. MAX. ELEV. | 62.0 |
| 26. DATE OF SURVEY | 35. PERIOD WATER INFLOW, ACRE-FEET | 36. WATER INF. TO DATE, AC-F. |
| 27. PERIOD YEARS | 34. PERIOD ANNUAL PRECIPITATION | a. MEAN ANNUAL | b. MAX. ANNUAL | c. PERIOD TOTAL |
| 28. ACCL. YEARS | 30. NO. OF RANGES OR CONTOUR INT. | 31. SURFACE AREA, ACRES | 32. CAPACITY, ACRE-FEET | 33. C.W. RATIO, AC-F. PER SQ. MI. |
| 36. WATER INF. TO DATE, AC-F. | 39. AV. DRY WTG. LBS. PER CU. FT. |
| 41. STORAGE LOSS, PCT. |

#### SURVEY DATA

| 26. DATE OF SURVEY | 37. PERIOD CAPACITY LOSS, ACRE-FEET | 38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET |
| 27. PERIOD YEARS | a. PERIOD | b. PER SQ. MI-YEAR | a. PERIOD TOTAL | b. AV. ANNUAL | c. PER SQ. MI-YEAR |
| 28. ACCL. YEARS | 39. AV. DRY WTG. LBS. PER CU. FT. |

#### WATERSHED

| 18. TOTAL DRAINAGE AREA | 19. NET SEDIMENT CONTRIBUTING AREA | 22. MEAN ANNUAL PRECIPITATION |
| 23. MEAN ANNUAL RUNOFF | 24. MEAN ANNUAL RUNOFF |
| 25. ANNUAL TEMP. | 26. DATE OF SURVEY |

#### COLUMNS

- **a.** Range & Topo.
- **b.** Range Contour (D)
- **c.** Range (R)
- **d.** Topo.

**Subhumid**

- **c.** 2.94
- **d.** 3.15
- **e.** 4.12
- **f.** 4.25

Includes both Pools: \( t + \Delta \mu \), \( \text{Av} = 77 \) \( \mu = 81/13 \)
### Depth Designation Range in Feet Below, and Above, Crest Elevation

<table>
<thead>
<tr>
<th>Date</th>
<th>90-92</th>
<th>86-90</th>
<th>82-86</th>
<th>78-82</th>
<th>74-78</th>
<th>70-74</th>
<th>66-70</th>
<th>62-66</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-61</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7.9</td>
<td>18.1</td>
<td>26.7</td>
<td>47.3</td>
<td>-</td>
</tr>
<tr>
<td>7-12-66</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>14</td>
<td>17</td>
<td>27</td>
<td>25</td>
<td>8</td>
</tr>
</tbody>
</table>

### Reach Designation Percent of Total Original Length of Reservoir

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>0-10</th>
<th>10-20</th>
<th>20-30</th>
<th>30-40</th>
<th>40-50</th>
<th>50-60</th>
<th>60-70</th>
<th>70-80</th>
<th>80-90</th>
<th>90-100</th>
<th>105</th>
<th>110</th>
<th>115</th>
<th>120</th>
<th>125</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Range in Reservoir Operation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Elevation-Area-Capacity Data

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Remarks and References

1/ Sed. Pool was dry when samples were taken.
2/ Elevation - Area - Capacity Data on separate sheet.
Land Use: 98% Native Pasture, 2% Miscellaneous
Geology: 100% Doxey Member Quartermaster Formation, Permian Age.
Continuation

U. S. Department of Agriculture

Soil Conservation Service

50-28
Data Sheet No.

Sandstone Creek No. 3

46. ELEVATION - AREA - CAPACITY DATA

1956 Capacity

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.0</td>
<td>12.95</td>
<td>148.40</td>
</tr>
<tr>
<td>90.0</td>
<td>11.06</td>
<td>124.29</td>
</tr>
<tr>
<td>86.0</td>
<td>8.30</td>
<td>85.80</td>
</tr>
<tr>
<td>82.0</td>
<td>6.26</td>
<td>56.85</td>
</tr>
<tr>
<td>78.0</td>
<td>5.07</td>
<td>34.29</td>
</tr>
<tr>
<td>74.0</td>
<td>3.74</td>
<td>16.77</td>
</tr>
<tr>
<td>70.0</td>
<td>2.52</td>
<td>4.76</td>
</tr>
<tr>
<td>66.0</td>
<td>0.26</td>
<td>0</td>
</tr>
</tbody>
</table>

1961 Capacity

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.0</td>
<td>12.95</td>
<td>139.98</td>
</tr>
<tr>
<td>90.0</td>
<td>11.06</td>
<td>115.87</td>
</tr>
<tr>
<td>86.0</td>
<td>8.30</td>
<td>77.38</td>
</tr>
<tr>
<td>82.0</td>
<td>6.26</td>
<td>48.43</td>
</tr>
<tr>
<td>78.0</td>
<td>4.75</td>
<td>26.54</td>
</tr>
<tr>
<td>74.0</td>
<td>3.31</td>
<td>10.54</td>
</tr>
<tr>
<td>70.0</td>
<td>1.68</td>
<td>0.78</td>
</tr>
<tr>
<td>69.0</td>
<td>0.16</td>
<td>0</td>
</tr>
</tbody>
</table>
### ELEVATION - AREA - CAPACITY DATA

Sandstone Site Number 3  
Data Sheet No. 50-

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Original Capacity</strong></td>
<td></td>
<td></td>
<td><strong>1961 Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92.0</td>
<td>12.95</td>
<td>157.68</td>
<td>92.0</td>
<td>12.95</td>
<td>139.98</td>
</tr>
<tr>
<td>90.0</td>
<td>11.06</td>
<td>133.57</td>
<td>90.0</td>
<td>11.06</td>
<td>115.87</td>
</tr>
<tr>
<td>86.0</td>
<td>8.30</td>
<td>95.08</td>
<td>86.0</td>
<td>8.30</td>
<td>77.38</td>
</tr>
<tr>
<td>82.0</td>
<td>6.26</td>
<td>66.13</td>
<td>82.0</td>
<td>6.26</td>
<td>48.43</td>
</tr>
<tr>
<td>78.0</td>
<td>5.34</td>
<td>42.48</td>
<td>78.0</td>
<td>4.75</td>
<td>26.54</td>
</tr>
<tr>
<td>74.0</td>
<td>3.90</td>
<td>24.11</td>
<td>74.0</td>
<td>3.31</td>
<td>10.54</td>
</tr>
<tr>
<td>70.0</td>
<td>2.80</td>
<td>10.81</td>
<td>70.0</td>
<td>1.68</td>
<td>0.78</td>
</tr>
<tr>
<td>66.0</td>
<td>1.39</td>
<td>2.62</td>
<td>69.0</td>
<td>0.16</td>
<td>0</td>
</tr>
<tr>
<td>62.0</td>
<td>0.14</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **1956 Capacity** | | | **1966 Capacity** | | |
| 92.0      | 12.95| 148.40   | 92.0      | 12.95| 125.60   |
| 90.0      | 11.06| 124.29   | 90.0      | 11.06| 101.60   |
| 86.0      | 8.30 | 85.80    | 86.0      | 8.30 | 63.02    |
| 82.0      | 6.26 | 56.85    | 84.0      | 6.15 | 48.62    |
| 78.0      | 5.07 | 34.29    | 82.0      | 5.61 | 36.86    |
| 74.0      | 3.74 | 16.77    | 80.0      | 4.74 | 26.51    |
| 70.0      | 2.52 | 4.76     | 78.0      | 4.09 | 17.70    |
| 66.0      | 0.26 | 0        | 76.0      | 3.26 | 10.37    |
|           |      |          | 74.0      | 2.42 | 4.71     |
|           |      |          | 72.0      | 1.33 | 1.01     |
|           |      |          | 70.0      | 0.02 | 0.01     |
|           |      |          | 68.0      | 0    | 0        |
## Reservoir Sediment Data Summary

### Sandstone Site No. 3

<table>
<thead>
<tr>
<th>Owner</th>
<th>Walter Merrick</th>
<th>Stream</th>
<th>Trib. of Sandstone</th>
<th>State</th>
<th>Oklahoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. Twp. Range</td>
<td>15 12N 22W</td>
<td>Nearest P.O.</td>
<td>Elk City</td>
<td>County</td>
<td>Roger Mills</td>
</tr>
<tr>
<td>Lat. Long.</td>
<td>35° 31' 08&quot; 99° 31' 10&quot;</td>
<td>Top of Dam Elevation</td>
<td>1924.4</td>
<td>Spillway Crest Elevation</td>
<td>1920.4</td>
</tr>
</tbody>
</table>

### Dam Details

<table>
<thead>
<tr>
<th>Storage Allocation</th>
<th>Elevation Top of Pool</th>
<th>Original Surface Area, Acres</th>
<th>Original Capacity, Acre-Feet</th>
<th>Gross Storage, Acre-Feet</th>
<th>Date Storage Began</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1920.4</td>
<td>12.95</td>
<td>91.55</td>
<td>157.68</td>
<td>4-9-51</td>
</tr>
</tbody>
</table>

### Reservoir Data

| inactive | 1/ | 1910.4 | 6.26 | 66.13 | 66.13 | 4-9-51 |

### Watershed

<table>
<thead>
<tr>
<th>Total Drainage Area</th>
<th>0.62</th>
<th>Sq. Mi.</th>
<th>Mean Annual Precipitation</th>
<th>25.00</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Sediment Contributing Area</td>
<td>0.60</td>
<td>Sq. Mi.</td>
<td>Mean Annual Runoff</td>
<td>1.10</td>
<td>Inches</td>
</tr>
<tr>
<td>Length</td>
<td>1.3</td>
<td>Miles</td>
<td>Av. Width</td>
<td>0.48</td>
<td>Miles</td>
</tr>
<tr>
<td>Max. Elev.</td>
<td>2050.0</td>
<td>Min. Elev.</td>
<td>1891.0</td>
<td>25</td>
<td>Annual Temp: Mean</td>
</tr>
</tbody>
</table>

### Survey Data

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period of Survey</th>
<th>Type of Survey</th>
<th>No. of Ranges or Contour Int.</th>
<th>Surface Area, Acres</th>
<th>Capacity, Acre-Feet</th>
<th>Temp. Ratio, Ac-Ft. Per Ac-Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-9-51</td>
<td>-</td>
<td>Detail Topo</td>
<td>10 Ranges</td>
<td>6.26 (12.95)</td>
<td>66.1 (157.7)</td>
<td>1.84 (4.34)</td>
</tr>
<tr>
<td>10-1-56</td>
<td>5.47</td>
<td>Detail Topo</td>
<td>10 Ranges</td>
<td>6.26 (12.95)</td>
<td>56.9 (148.4)</td>
<td>1.58 (4.08)</td>
</tr>
<tr>
<td>10-1-61</td>
<td>5.00</td>
<td>Detail Topo</td>
<td>10 Ranges</td>
<td>6.26 (12.95)</td>
<td>48.5 (140.0)</td>
<td>1.35 (3.85)</td>
</tr>
<tr>
<td>7-12-66</td>
<td>4.80</td>
<td>Range Contour (D)</td>
<td>10R 2'C.I.</td>
<td>5.61 (12.95)</td>
<td>36.9 (125.6)</td>
<td>1.03 (3.45)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>5.13</td>
<td>Range Contour (D)</td>
<td>10R 2'C.I.</td>
<td>5.47 (12.72)</td>
<td>35.0 (123.2)</td>
<td>0.97 (3.39)</td>
</tr>
</tbody>
</table>

### Water Inflow

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period of Survey</th>
<th>Mean Annual Precipitation</th>
<th>Water Inflow, Acre-Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-9-51</td>
<td>-</td>
<td>Mean Annual</td>
<td>Total Water Inflow, Acre-Feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>a. Mean Annual</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b. Total to Date</td>
</tr>
</tbody>
</table>

### Period Capacity Loss

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period of Survey</th>
<th>Mean Annual</th>
<th>Total to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>9.2 (9.3)</td>
<td>2.80 (2.83)</td>
<td>2.80 (2.83)</td>
</tr>
<tr>
<td>10-1-61</td>
<td>8.4 (8.4)</td>
<td>2.80 (2.80)</td>
<td>17.6 (17.7)</td>
</tr>
<tr>
<td>7-12-66</td>
<td>11.5 (14.4)</td>
<td>2.40 (3.00)</td>
<td>3.99 (5.00)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>1.9 (2.4)</td>
<td>0.37 (0.47)</td>
<td>0.62 (0.78)</td>
</tr>
</tbody>
</table>

### Period SED Deposits

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Mean Annual</th>
<th>Total to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>2.54 (1.08)</td>
<td>2.54 (1.07)</td>
</tr>
<tr>
<td>10-1-61</td>
<td>2.54 (1.08)</td>
<td>2.54 (1.07)</td>
</tr>
<tr>
<td>7-12-66</td>
<td>2.54 (1.08)</td>
<td>2.54 (1.07)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>2.54 (1.08)</td>
<td>2.54 (1.07)</td>
</tr>
</tbody>
</table>

### Sediment Deposition

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Mean Annual</th>
<th>Total to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>70</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>10-1-61</td>
<td>78</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>7-12-66</td>
<td>75 Sed.P. (2)</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>76 Sed.P. (2)</td>
<td>4269 (4314)</td>
</tr>
</tbody>
</table>

### Sediment Loss

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Mean Annual</th>
<th>Total to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>70</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>10-1-61</td>
<td>78</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>7-12-66</td>
<td>75 Sed.P. (2)</td>
<td>4269 (4314)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>76 Sed.P. (2)</td>
<td>4269 (4314)</td>
</tr>
</tbody>
</table>

### Sediment Inflow

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Mean Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>70</td>
</tr>
<tr>
<td>10-1-61</td>
<td>78</td>
</tr>
<tr>
<td>7-12-66</td>
<td>75 Sed.P. (2)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>76 Sed.P. (2)</td>
</tr>
</tbody>
</table>

### Sediment Transfers

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Mean Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>70</td>
</tr>
<tr>
<td>10-1-61</td>
<td>78</td>
</tr>
<tr>
<td>7-12-66</td>
<td>75 Sed.P. (2)</td>
</tr>
<tr>
<td>8-27-71</td>
<td>76 Sed.P. (2)</td>
</tr>
</tbody>
</table>
### Depth Designation Range

<table>
<thead>
<tr>
<th>Depth Designation</th>
<th>Percent of Total Sediment Located Within Depth Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-56</td>
<td>0 0 0 0 1 5 6 4 5 14 37 28</td>
</tr>
<tr>
<td>10-1-61</td>
<td>0 0 0 0 0 4 4 9 9 27 47 0</td>
</tr>
<tr>
<td>7-12-66</td>
<td>0 0 0 0 9 7 7 9 8 27 25 8</td>
</tr>
<tr>
<td>8-27-71</td>
<td>0 0 0 0 5 5 4 6 9 11 28 24 8</td>
</tr>
</tbody>
</table>

### Reach Designation Percent of Total Original Length of Reservoir

<table>
<thead>
<tr>
<th>Reach Designation</th>
<th>Percent of Total Sediment Located Within Reach Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
<td></td>
</tr>
<tr>
<td>10-20</td>
<td></td>
</tr>
<tr>
<td>20-30</td>
<td></td>
</tr>
<tr>
<td>30-40</td>
<td></td>
</tr>
<tr>
<td>40-50</td>
<td></td>
</tr>
<tr>
<td>50-60</td>
<td></td>
</tr>
<tr>
<td>60-70</td>
<td></td>
</tr>
<tr>
<td>70-80</td>
<td></td>
</tr>
<tr>
<td>80-90</td>
<td></td>
</tr>
<tr>
<td>90-100</td>
<td></td>
</tr>
<tr>
<td>-105</td>
<td></td>
</tr>
<tr>
<td>-110</td>
<td></td>
</tr>
<tr>
<td>-115</td>
<td></td>
</tr>
<tr>
<td>-120</td>
<td></td>
</tr>
<tr>
<td>-125</td>
<td></td>
</tr>
</tbody>
</table>

### Range in Reservoir Operation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Elevation-Area-Capacity Data

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Survey</td>
<td>1894.4</td>
<td>1.39</td>
<td>2.62</td>
<td>1910.4</td>
<td>5.47</td>
<td>35.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1920.4</td>
<td>12.95</td>
<td>157.68</td>
<td>1890.4</td>
<td>0.14</td>
<td>0</td>
<td>1908.0</td>
<td>4.48</td>
<td>23.10</td>
</tr>
<tr>
<td>1918.4</td>
<td>11.06</td>
<td>133.57</td>
<td></td>
<td>1906.0</td>
<td>3.61</td>
<td>15.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1914.4</td>
<td>8.30</td>
<td>95.08</td>
<td>1920.4</td>
<td>12.72</td>
<td>123.17</td>
<td>1904.0</td>
<td>2.81</td>
<td>8.59</td>
</tr>
<tr>
<td>1910.4</td>
<td>6.26</td>
<td>66.13</td>
<td>1918.0</td>
<td>10.66</td>
<td>95.11</td>
<td>1902.0</td>
<td>2.13</td>
<td>3.65</td>
</tr>
<tr>
<td>1906.4</td>
<td>5.34</td>
<td>42.48</td>
<td>1916.0</td>
<td>9.02</td>
<td>75.43</td>
<td>1900.0</td>
<td>1.01</td>
<td>0.51</td>
</tr>
<tr>
<td>1902.4</td>
<td>3.90</td>
<td>24.11</td>
<td>1914.0</td>
<td>7.71</td>
<td>58.70</td>
<td>1899.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1898.4</td>
<td>2.80</td>
<td>10.81</td>
<td>1912.0</td>
<td>6.43</td>
<td>44.56</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Remarks and References

1. Sediment pool
2. See attached sheets for other Elevation-Area-Capacity Data
Land Use: 98% Grassland; 2% Miscellaneous - 1971
98% Grassland; 2% Miscellaneous - 1951
Geology: 100% Doxey Shale Member Quartermaster Formation Permian Age.
Land Resource Area: Central Rolling Red Plains
(): Figures in parenthesis include sediment and flood pools.

### Agency Making Survey
Oklahoma Watershed Planning Staff

### Agency Supplying Data
S.C.S. U.S.D.A.

### Date
March 7, 1972