

U.S. DEPARTMENT OF AGRICULTURE  
**RESERVOIR SEDIMENTATION  
DATA SUMMARY**

**Sandstone Creek 16A**

SOIL CONSERVATION SERVICE  
50-35

NAME OF RESERVOIR  
Trib. of

DATA SHEET NO.

DAM	1. OWNER <b>Marshall-Neal</b>			2. RIVER <b>Sandstone Cr.</b>		3. STATE <b>Oklahoma</b>		
	4. SEC. <b>31</b> TWP. <b>12N</b> RANGE <b>23W</b>			5. NEAREST TOWN <b>Cheyenne</b>		6. COUNTY <b>Roger Mills</b>		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <b>102.0</b>		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	<b>102.0</b>	<b>1/ 103.58</b>	<b>1/ (2065.88)</b>		<b>12-7-51</b>		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION							
	e. CONSERVATION					16. DATE NORMAL OPER. BEGAN		
	f. INACTIVE	<b>69.89</b>	<b>1/ 26.77</b>	<b>1/ 273.01</b>		<b>12-7-51</b>		
WATERSHED	17. LENGTH OF RESERVOIR <b>1.14</b> MILES			AV. WIDTH OF RESERVOIR <b>0.14</b> MILES				
	18. TOTAL DRAINAGE AREA <b>8.78</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>25.00</b> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <b>5.11</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>1.0</b> INCHES				
	20. LENGTH <b>4.55</b> MILES		AV. WIDTH <b>1.93</b> MILES		24. MEAN ANNUAL RUNOFF <b>53.3</b> AC.-FT.			
	21. MAX. ELEV. <b>102.0</b>		MIN. ELEV. <b>44.0</b>		25. CLIMATIC CLASSIFICATION <b>Subhumid</b>			
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE- FEET	33. $\frac{C}{W}$ RATIO AC.-FT. PER SQ. MI.
	<b>12-7-51</b>	-	-	-	-	<b>26.77</b>	<b>273.01</b>	<b>31.09</b>
				<b>Det. R. Contour</b>		<b>(103.58)</b>	<b>(2065.88)</b>	<b>(235.29)</b>
	<b>10-1-56</b>	<b>4.82</b>	<b>4.82</b>	"	<b>15</b>	<b>26.28</b>	<b>242.03</b>	<b>27.57</b>
				"		<b>(103.58)</b>	<b>(2033.89)</b>	<b>(231.65)</b>
	<b>9-20-61</b>	<b>4.88</b>	<b>9.70</b>	"	<b>15</b>	<b>24.03</b>	<b>208.74</b>	<b>23.77</b>
				"		<b>(103.58)</b>	<b>(1987.93)</b>	<b>(226.42)</b>
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET		36. WATER INFL. TO DATE AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. TOTAL TO DATE	
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.				
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
<b>10-1-56</b>	<b>30.98</b> <b>(31.99)</b>	<b>6.43</b> <b>(6.64)</b>	<b>1.26</b> <b>(1.30)</b>	<b>30.98</b> <b>(31.99)</b>	<b>6.43</b> <b>(6.64)</b>	<b>1.26</b> <b>(1.30)</b>		
<b>9-20-61</b>	<b>33.29</b> <b>(45.96)</b>	<b>6.82</b> <b>(9.42)</b>	<b>1.33</b> <b>(1.84)</b>	<b>73.17</b> <b>(77.95)</b>	<b>7.54</b> <b>(8.04)</b>	<b>1.48</b> <b>(1.57)</b>		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
<b>10-1-56</b>	<b>80.56</b>	<b>2211</b> <b>(2281)</b>	<b>2211</b> <b>(2281)</b>	<b>02.36</b> <b>(0.32)</b>	<b>11.35</b> <b>(1.55)</b>			
<b>9-20-61</b>	<b>79.79</b>	<b>2919</b> <b>(3181)</b>	<b>2572</b> <b>(2728)</b>	<b>2.76</b> <b>(0.39)</b>	<b>26.80</b> <b>(3.77)</b>			

( - ) Includes both pools. 1/ Original capacity.

26. DATE OF SURVEY 1951	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	90-98	98-94	94-90	90-86	86-82	82-78	78-74	74-70	70-66	66-62	62-58	58-54
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
1956	0	0	0	0	0	0	0	3	17	15	21	19
1961	0	0	0	0	0	1.8	5.2	10.5	14.2	14.3	14.4	14.5
	54-50	50-46	46-44									
1956	22	11	2									
1961	15.5	9.2	0.4									

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. Original Capacity			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
102.0	103.58	2065.88	69.89	26.77	273.01			
98.1	88.32	1683.44	66.0	19.46	181.17			
94.0	73.44	1361.18	62.0	14.88	112.86			
90.0	61.32	1092.69	58.0	9.96	63.64			
86.0	51.39	868.12	54.0	1.90	30.19			
82.0	43.42	679.19	50.0	4.25	8.15			
78.0	35.65	521.70	46.0	0.37	0.34			
74.0	31.17	388.49	44.0	0.03	0			

47. REMARKS AND REFERENCES

Geology: 85% in the Ogalalla formation  
 10% in the Elk City member of the Quartermaster formation  
 5% in the Doxey member of the Quartermaster formation

Soil Conservation Service  
 Stillwater, Oklahoma

48. AGENCY SUPPLYING DATA

49. DATE March 26, 1962

## Continuation

U. S. Department of Agriculture

Soil Conservation Service

50-35

Data Sheet No.

## Sandstone Creek No. 16A

## 46. ELEVATION - AREA - CAPACITY DATA

1956 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
102.0	103.58	2033.89	74.0	31.17	356.50
98.0	88.32	1651.45	69.89	26.28	242.03
94.0	73.44	1329.19	66.0	18.82	152.47
90.0	61.32	1060.70	62.0	13.11	89.11
86.0	51.39	836.13	58.0	8.38	46.59
82.0	43.42	647.20	54.0	5.38	19.36
78.0	35.65	489.71	50.0	2.43	4.16

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
46.0	.13	0

1961 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
102.0	103.58	1987.93	74.0	29.85	316.02
98.0	88.32	1605.49	69.89	24.03	208.74
94.0	73.44	1283.23	66.0	16.69	127.94
90.0	61.32	1014.74	62.0	12.09	70.76
86.0	51.39	790.17	58.0	7.16	32.79
82.0	43.42	601.24	54.0	4.08	10.65
78.0	34.96	445.18	50.0	1.21	0.66

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
49.0	0.24	0

U.S. DEPARTMENT OF AGRICULTURE  
**RESERVOIR SEDIMENTATION  
DATA SUMMARY**

**Sandstone Creek 16A**

SOIL CONSERVATION SERVICE  
50-35a  
DATA SHEET NO.

NAME OF RESERVOIR  
**Trid. Cr.**

DAM	1. OWNER <b>Marshall-Neal</b>		2. RIVER <b>Sandstone Cr.</b>		3. STATE <b>Oklahoma</b>			
	4. SEC. <b>31</b> TWP. <b>12N</b> RANGE <b>23W</b>		5. NEAREST TOWN <b>Cheyenne</b>		6. COUNTY <b>Roger Mills</b>			
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <b>102.0</b>			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	<b>102.0</b>	<b>1/ 103.58</b>		<b>1/ (2065.88)</b>	<b>12-7-51</b>		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
	f. INACTIVE	<b>69.89</b>	<b>1/ 26.77</b>		<b>1/ 273.01</b>	<b>12-7-51</b>		
17. LENGTH OF RESERVOIR <b>1.14</b>		MILES		AV. WIDTH OF RESERVOIR <b>0.14</b>		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA <b>8.78</b>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>25.00</b>		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>5.11</b>		SQ. MI.		23. MEAN ANNUAL RUNOFF <b>1.0</b>		INCHES	
	20. LENGTH <b>4.55</b>		MILES		AV. WIDTH <b>1.93</b>		MILES	
	21. MAX. ELEV. <b>102.0</b>		MIN. ELEV. <b>44.0</b>		25. CLIMATIC CLASSIFICATION <b>Subhumid</b>			
	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE- FEET
<b>12-7-51</b>	-	-	-	-	-	<b>26.77</b>	<b>1/ 273.01</b>	<b>31.09</b>
<b>10-1-56</b>	<b>4.82</b>	<b>4.82</b>	<b>Det. R. Contour</b>		<b>15</b>	<b>(103.58)</b>	<b>(2065.88)</b>	<b>(235.29)</b>
<b>9-20-61</b>	<b>4.88</b>	<b>9.70</b>	<b>"</b>		<b>15</b>	<b>(103.58)</b>	<b>(2033.89)</b>	<b>(231.65)</b>
						<b>(103.58)</b>	<b>(1987.93)</b>	<b>(226.42)</b>
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC-FT.	
		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL		d. MEAN ANNUAL	e. TOTAL TO DATE.	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
<b>10-1-56</b>	<b>30.98</b> <b>(31.99)</b>	<b>6.43</b> <b>(6.64)</b>	<b>1.26</b> <b>(1.30)</b>	<b>30.98</b> <b>(31.99)</b>	<b>6.43</b> <b>(6.64)</b>	<b>1.26</b> <b>(1.30)</b>		
<b>9-20-61</b>	<b>33.29</b> <b>(45.96)</b>	<b>6.82</b> <b>(9.42)</b>	<b>1.33</b> <b>(1.84)</b>	<b>73.17</b> <b>(77.95)</b>	<b>7.54</b> <b>(8.04)</b>	<b>1.48</b> <b>(1.57)</b>		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
<b>10-1-56</b>	<b>80.56</b>	<b>2211</b> <b>(2281)</b>	<b>2211</b> <b>(2281)</b>	<b>02.36</b> <b>(0.32)</b>	<b>11.35</b> <b>(1.55)</b>			
<b>9-20-61</b>	<b>79.79</b>	<b>2311</b> <b>(3198)</b>	<b>2572</b> <b>(2728)</b>	<b>2.76</b> <b>(0.39)</b>	<b>26.80</b> <b>(3.77)</b>			

( - ) Includes both pools. 1/ Original capacity.

26. DATE OF SURVEY 1951	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	98-98	98-94	94-90	90-86	86-82	82-78	78-74	74-70	70-66	66-62	62-58	58-54
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
1956	0	0	0	0	0	0	0	3	17	15	21	19
1961	0	0	0	0	0	1.8	5.2	10.5	14.2	14.3	14.4	14.5
	54-50	50-46	46-44									
1956	22	11	2									
1961	15.5	9.2	0.4									

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC-FT.

46. Original Capacity			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
102.0	103.58	2065.88	69.89	26.77	273.01			
98.1	88.32	1683.44	66.0	19.46	181.17			
94.0	73.44	1361.18	62.0	14.88	112.86			
90.0	61.32	1092.69	58.0	9.96	63.64			
86.0	51.39	868.12	54.0	1.90	30.19			
82.0	43.42	679.19	50.0	4.25	8.15			
78.0	35.65	521.70	46.0	0.37	0.34			
74.0	31.17	388.49	44.0	0.03	0			

47. REMARKS AND REFERENCES

Geology: 85% in the Ogalalla formation  
 10% in the Elk City member of the Quartermaster formation  
 5% in the Doxey member of the Quartermaster formation

Soil Conservation Service  
 Stillwater, Oklahoma

48. AGENCY SUPPLYING DATA

49. DATE March 26, 1962

Continuation

U. S. Department of Agriculture

Soil Conservation Service

50-35

Data Sheet No.

Sandstone Creek No. 16A

46. ELEVATION - AREA - CAPACITY DATA

1956 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
102.0	103.58	2033.89	74.0	31.17	356.50
98.0	88.32	1651.45	69.89	26.28	242.03
94.0	73.44	1329.19	66.0	18.82	152.47
90.0	61.32	1060.70	62.0	13.11	89.11
86.0	51.39	836.13	58.0	8.38	46.59
82.0	43.42	647.20	54.0	5.38	19.36
78.0	35.65	489.71	50.0	2.43	4.16

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
46.0	.13	0

1961 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
102.0	103.58	1987.93	74.0	29.85	316.02
98.0	88.32	1605.49	69.89	24.03	208.74
94.0	73.44	1283.23	66.0	16.69	127.94
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82.0	43.42	601.24	54.0	4.08	10.65
78.0	34.96	445.18	50.0	1.21	0.66

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
49.0	0.24	0

RESERVOIR SEDIMENT  
DATA SUMMARY

Sandstone Site 16A

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

50- 35b

DATA SHEET NO.

DAM	1. OWNER <b>Marshall - Neal</b>			2. STREAM <b>Washita</b>			3. STATE <b>Oklahoma</b>								
	4. SEC. <b>31</b> TWP. <b>12N</b> RANGE <b>23W</b>			5. NEAREST P.O. <b>Cheyenne</b>			6. COUNTY <b>Roger Mills</b>								
	7. LAT. " LONG. "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. <b>102.0</b>								
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL		<b>102.0</b>		<b>(103.58)</b>				<b>(2065.88)</b>		<b>12-7-51</b>				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
g. INACTIVE		<b>69.89</b>		<b>26.77</b>				<b>273.02</b>		<b>12-7-51</b>					
WATERSHED	17. LENGTH OF RESERVOIR <b>1.14</b> MILES				AV. WIDTH OF RESERVOIR <b>0.14</b> MILES										
	18. TOTAL DRAINAGE AREA <b>8.78</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.00</b> INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <b>5.11</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.0</b> INCHES										
	20. LENGTH <b>4.55</b> MILES		AV. WIDTH <b>1.93</b> MILES		24. MEAN ANNUAL RUNOFF <b>468</b> AC.-F.T.										
	21. MAX. ELEV. <b>102.0</b>		MIN. ELEV. <b>44.0</b>		25. ANNUAL TEMP.: MEAN RANGE <b>Subhumid</b>										
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA, ACRES		32. CAPACITY, ACRE-FEET		33. C/W RATIO, AC.-FT. PER SQ. MI.			
	<b>12-7-51</b>		<b>-</b>	<b>-</b>	<b>Contour</b>		<b>-</b>	<b>26.77</b>		<b>273.01</b>		<b>235.29</b>			
	<b>10-1-56</b>		<b>4.82</b>	<b>4.82</b>	<b>Det.R.</b>		<b>15</b>	<b>26.28</b>		<b>242.03</b>		<b>231.65</b>			
	<b>9-20-61</b>		<b>4.88</b>	<b>9.70</b>	<b>-</b>		<b>15</b>	<b>24.03</b>		<b>208.74</b>		<b>226.42</b>			
	<b>8-1-66</b>		<b>4.86</b>	<b>14.65</b>	<b>Range Contour (D)</b>		<b>14 (R)</b>	<b>22.54</b>		<b>202.08</b>		<b>225.45</b>			
							<b>2 C.I.</b>	<b>(103.58)</b>		<b>(1979.45)</b>					
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE- FEET				36. WATER INFL. TO DATE, AC.-FT.						
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE		
	<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE- FEET									
			a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR							
	<b>10-1-56</b>		<b>30.98</b>	<b>6.43</b>	<b>1.26</b>	<b>30.98</b>	<b>6.43</b>	<b>1.26</b>							
			<b>(31.99)</b>	<b>(6.64)</b>	<b>(1.30)</b>	<b>(31.99)</b>	<b>(6.64)</b>	<b>(1.30)</b>							
	<b>9-20-61</b>		<b>33.29</b>	<b>6.82</b>	<b>1.33</b>	<b>64.27</b>	<b>6.63</b>	<b>1.30</b>							
			<b>(45.96)</b>	<b>(9.42)</b>	<b>(1.84)</b>	<b>(77.95)</b>	<b>(8.04)</b>	<b>(1.57)</b>							
<b>8-1-66</b>		<b>6.66</b>	<b>1.37</b>	<b>0.27</b>	<b>70.94</b>	<b>4.84</b>	<b>0.95</b>								
		<b>(8.48)</b>	<b>(1.74)</b>	<b>(0.34)</b>	<b>(86.43)</b>	<b>(5.90)</b>	<b>(1.16)</b>								
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM							
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
<b>10-1-56</b>		<b>80.56</b>		<b>2211</b>		<b>2211</b>		<b>02.36</b>		<b>11.35</b>					
				<b>(2281)</b>		<b>(2291)</b>		<b>(0.32)</b>		<b>(1.55)</b>					
<b>9-20-61</b>		<b>79.79</b>		<b>2919</b>		<b>2572</b>		<b>2.76</b>		<b>22.59</b>					
				<b>(3181)</b>		<b>(2728)</b>		<b>(0.39)</b>		<b>(3.77)</b>					
<b>8-1-66</b>		<b>44 Sed P (2)</b>		<b>259</b>		<b>910</b>		<b>1.78</b>		<b>25.98</b>					
		<b>94 Det P (2)</b>		<b>(402)</b>		<b>(1340)</b>		<b>(0.29)</b>		<b>(4.18)</b>					

( ) Includes Both Pools. Weighted Av. 77lbs

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	90-94	94-98	98-102	86-90	82-86	78-82	74-78	70-74	66-70	62-66	58-62	54-58
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
10-1-56	0	0	0	0	0	0	0	3	7	16	21	20
9-20-61	0	0	0	0	0	2	5	11	14	14	14	15
8-1-66	0	0	0	0	0	1	7	13	18	10	12	14
10-1-56	21	11	1									
9-20-61	15	9	1									
8-1-66	17	8	0									

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA <u>1/</u>								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES  
1/ Elevation - Area - Capacity Data on separate sheet.  
 Land Use: 44% Cultivation, 53% Native Pasture, 3% Miscellaneous  
 Geology: 85% Ogalalla Formation, Tertiary Age  
 10% Elk City, 5% Doxey Member Quartermaster Formation Permian Age.

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA SCS - Stillwater, Oklahoma  
 50. DATE October 14, 1966



ELEVATION - AREA - CAPACITY

DATA

Sandstone 16A

Data Sheet No. 50-

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	:	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
<u>Original Capacity</u>				<u>1961 Capacity</u>		
102.0	103.58	2065.88		102.0	103.58	1987.93
98.0	88.32	1683.44		98.0	88.32	1605.49
94.0	73.44	1361.18		94.0	73.44	1283.23
90.0	61.32	1092.69		90.0	61.32	1014.74
86.0	51.39	868.12		86.0	51.39	790.17
82.0	43.42	679.19		82.0	43.42	601.24
78.0	35.65	521.70		78.0	34.96	445.18
74.0	31.17	388.49		74.0	29.85	316.02
69.89	26.77	273.01		69.89	24.03	208.74
66.0	19.46	181.17		66.0	16.69	127.94
62.0	14.88	112.86		62.0	12.09	70.76
58.0	9.96	63.64		58.0	7.16	32.79
54.0	6.90	30.19		54.0	4.08	10.65
50.0	4.25	8.15		50.0	1.21	0.66
46.0	0.37	0.34		49.0	0.24	0
44.0	0.3	0				
<u>1956 Capacity</u>				<u>1966 Capacity</u>		
102.0	103.58	2033.89		102.0	103.58	1979.45
98.0	88.32	1651.45		98.0	88.32	1596.16
94.0	73.44	1329.19		94.0	73.44	1273.19
90.0	61.32	1060.70		90.0	61.32	1004.11
86.0	51.39	836.13		86.0	51.39	779.05
82.0	43.42	647.20		82.0	43.42	589.71
78.0	35.65	489.71		78.0	34.83	433.58
74.0	31.17	356.50		76.0	31.88	366.87
69.89	26.28	242.03		74.0	28.52	306.48
66.0	18.82	152.47		72.0	25.39	252.58
62.0	13.11	89.11		69.89	22.54	202.08
58.0	8.38	46.59		68.0	18.86	163.01
54.0	5.38	19.36		66.0	17.20	126.95
50.0	2.43	4.16		64.0	14.97	94.80
46.0	0.13	0		62.0	12.42	67.44
				60.0	9.54	45.55
				58.0	7.64	28.39
				56.0	5.24	15.58
				54.0	3.51	6.92
				52.0	2.07	1.44
				50.0	0.5	.03
				48.0	0	0



26. DATE OF SURVEY	71	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
		1-51	51-47	47-43	43-39	39-35	35-31	31-27	27-23	23-19	19-15	15-13			
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION															
10-1-56	0	0	0	3	7	16	21	20	21	11	1				
9-20-61	0	2	5	11	14	14	14	15	15	9	1				
8-1-66	0	1	7	13	18	12	12	14	17	8	0				
8-3-71	0	0	7	16	14	13	14	14	16	6	0				
26. DATE OF SURVEY		44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
		0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION															
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.								
46. <u>2/</u> ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
47. REMARKS AND REFERENCES															
<u>1/</u> Sediment Pool															
<u>2/</u> See attached sheet for Elevation-Area-Capacity Data															
Land Use: 28% Cropland, 55% Grassland, 14% Woodland, 3% Miscellaneous - 1971															
44% Cropland, 39% Grassland, 14% Woodland, 3% Miscellaneous - 1966															
Geology: 85% Ogallala Formation Tertiary Age and 15% Quartermaster Formation Permian Age															
Land Resource Area: Central Rolling Red Plains															
( ): Figures in parenthesis include sediment and flood pools.															
48. AGENCY MAKING SURVEY Oklahoma Watershed Planning Staff															
49. AGENCY SUPPLYING DATA S.C.S. U.S.D.A.															
50. DATE March 8, 1972															