

WATER PERMIT NO. 6909-3

Name of Applicant: **Jeanne Remele**

Address: **310 9th Ave, Britton SD 57430**

Phone: **605 448-5636**

Amount of Water Claimed: **30.4 AF**

Total Acres: **NA**

Source of Water Supply: **runoff**

Water to be used for: **fwp, rec and livestock**

County: **Marshall**

Type of Waste Disposal System:

Location: **6 miles southeast of Britton**

PRIORITY

Date Received: **10-12-07**

Application/License Fee: **\$200**

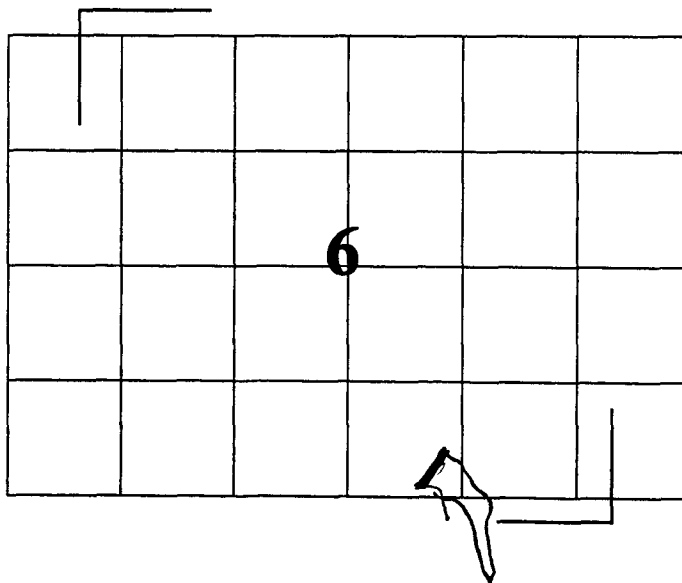
Corrected Application Received:

Period of Annual Use: **January 1 – December 31**

Remarks:

Diversion Point: **SW ¼ SE ¼ Sec 6-T126N-R56W**

Water Impounded: **S ½ SE ¼ Sec 6 and NE ¼ NE ¼ Sec 7; all in T126N-R56W**



Depth of Well: **NA**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by: **Thomas Wickstrom, Waubay NWR**

Reviewed and the Number Assigned on: **10-23-07**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6909-3</u> (office use only) Hydrologic Unit <u>10160010</u>
	Basin <u>James River</u>
	Newspaper <u>Britton Journal PO Box 69</u>
	<u>665-448-2281</u> (Wed) <u>Britton 57430</u>

RECEIVED

OCT 12 2007

WATER RIGHTS

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

- | | | | |
|---|---|--|--|
| ☐ Municipal | ☐ Suburban Housing | ☒ Recreational | ☐ Institutional |
| ☐ Rural Water System | ☐ Commercial | ☒ Fish & Wildlife | ☐ Geothermal Heat |
| ☐ Domestic (over 18 gpm) | ☐ Industrial | ☒ Other <u>livestock</u> | |

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

- Name of Applicant Jeanne Remele Phone (605) 448-5636
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 310 9th Ave Britton State SD 57430
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM 30.4 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply watershed above embankment
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Marshall
SW1/4 NE1/4 Section 6, T. 126 N., R. 56 W. SE Water impounded S 1/2 SE 1/4 Sec 6 & NE 1/4 NE 1/4 Sec 7 all in T126N R56W
- County or counties where water will be used Marshall
- Annual period during which water is to be used annually Jan 1 - Dec 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

See Attached sketch plan

STATE OF SOUTH DAKOTA)

County of Marshall SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Jeanne Remele, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Jeanne Remele

Subscribed and sworn to before me this 11th day of October 20 07

Jan A. Kinsman
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6909-3**

Date of first receipt of application October 12, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6909-3 to Jeanne Remele, 310 9th Ave, Britton SD 57430 authorizing the construction of the dam and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6909-3 authorizes impoundment of 30.4 acre-feet of water from runoff by reconstructing an existing dam located in the SW ¼ SE ¼ Section 6 with water impounded in the S ½ SE ¼ Section 6 and NE ¼ NE ¼ Section 7; all in T126N-R56W.
2. The water appropriated shall be used for the purpose of fish and wildlife propagation, recreation and livestock water and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January – December 31.
4. The date of approval of Permit No. 6909-3 is November 26, 2007.
5. The date from which applicant may claim right is October 12, 2007.
6. One-fifth of the construction is to be completed on or before May 26, 2010.
7. All construction is to be completed on or before November 26, 2012.
8. Water is to be put to beneficial use on or before November 26, 2012.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Water Permit No. 6909-3 authorizes a dam with a storage capacity of 30.4 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JAN 24 2008

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
 On applicants property _____ On property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System

3. Dugout Information

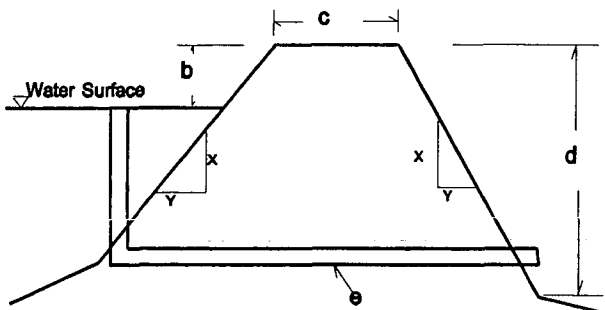
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

Konechene Engineering
 Dave Konechene, PE
 104 Capitol Hill Drive
 Pierre, SD 57501



- b) Freeboard _____ 3 feet
- c) Crest Width _____ 12 feet
 Crest Length _____ 400 feet
- d) Height _____ 23.2
- e) Primary Outlet Capacity _____ 263
 If pipe, diameter _____ 48" drop w/15"out
- f) Secondary Spillway Capacity _____ 22.3
 Spillway Width _____ 40'
- g) X & Y Slope _____
 Upstream _____ 3:1
 Downstream _____ 3:1
- h) Surface Area of Impoundment _____ 3.8
- i) Storage _____ 30.4 Acre Feet
- j) Drainage Area Above Dam _____ 600.0 Acres



Jeanne Remele Marshall County Embankment Repair



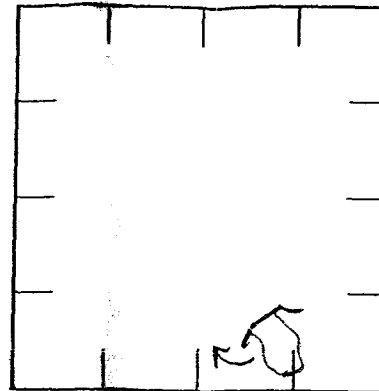
 Wetland Repaired



Thomas L. Wickstrom
Thomas L. Wickstrom
Fish & Wildlife Biologist
Waubesa NWR



DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF	EMERG. SPLWY.	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC.FT.	Ac-Ft 25-YR.	C.F.S.	FEET	ACRES	AC.FT.	AC.FT.
600	4.5	90	263	16	3.8	—	30.4

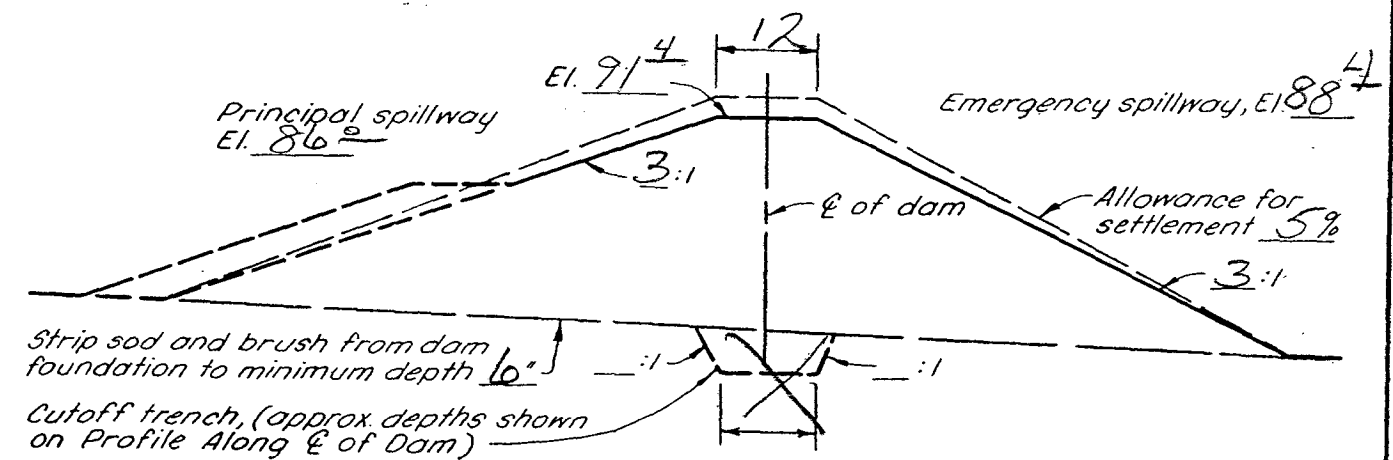
$$\begin{array}{r} 105.3 \\ 61.8 \end{array}$$


SE Sec. 6 T. 126 N R. 56 W
Marshall County

TABLE OF QUANTITIES

[illegible]

see Topog



TYPICAL CROSS SECTION OF DAM

S.D. CONSTRUCTION AND MATERIAL SPECIFICATIONS:

SD-75 Earth Fill
SD-9 Drain Fill
SD-19 PVC

EARTH DAM

OPERATOR: Jim Peters
CONSERVATION DISTRICT: Marshall Co.

Class "A" Hazard

SKETCH PLAN OF DAM AND RESERVOIR AREA

Approximate scale 1" =

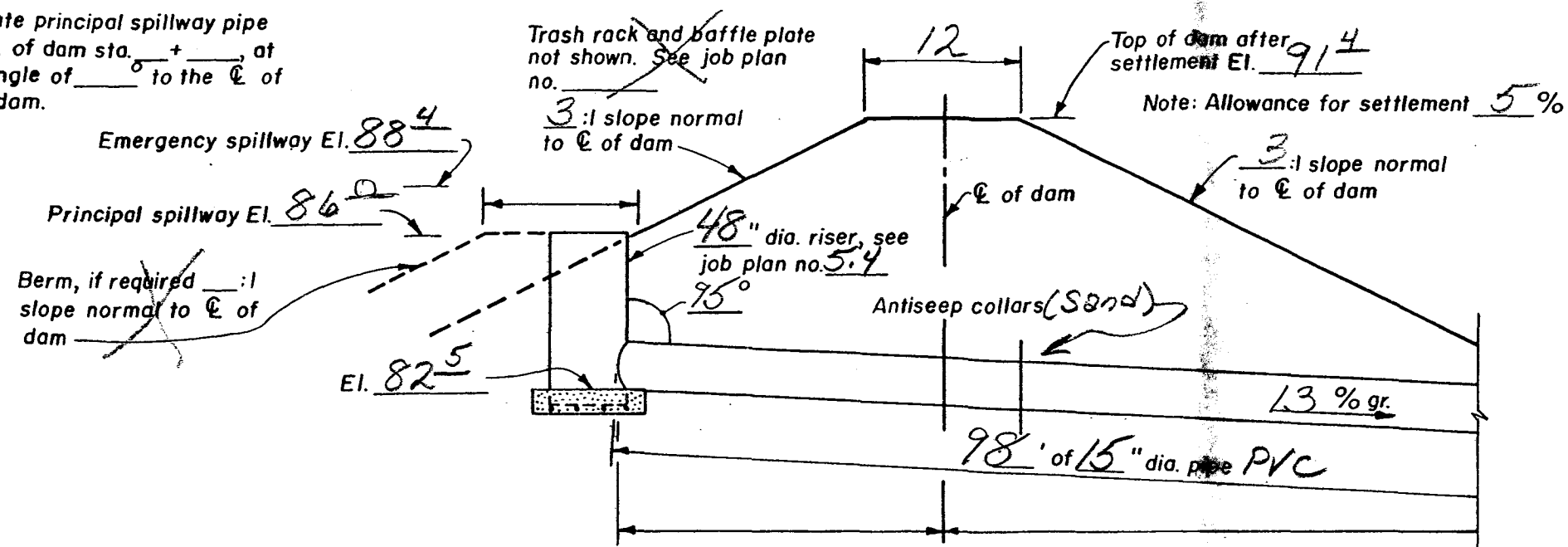
REFERENCE: GUIDE PLAN NO. 1.0

JOB PLAN NO. 1.0

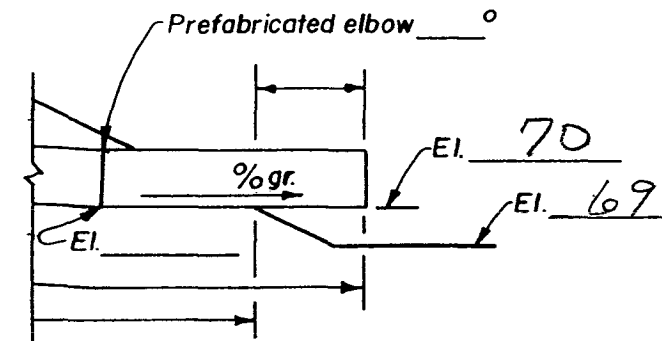
USDA-SCS-LINCOLN, NEBR. 1972

(Rev. 4-73) 5, N-29, 073.1a(1,

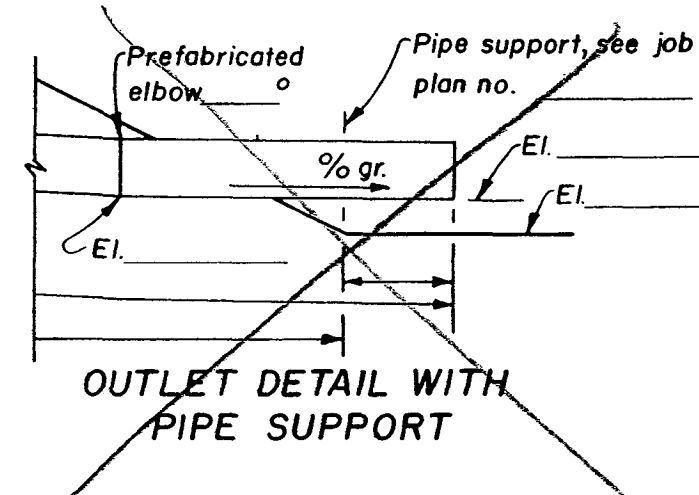
Locate principal spillway pipe
at $\mathcal{C}$ of dam sta. + , at
an angle of $^{\circ}$ to the $\mathcal{C}$ of
the dam.



CROSS SECTION OF DAM ALONG C OF PRINCIPAL SPILLWAY
(Not to scale)



OUTLET DETAIL WITHOUT PIPE SUPPORT



OUTLET DETAIL WITH
PIPE SUPPORT

Sec. _____, T. _____, R. _____
County _____

**CORRUGATED METAL PIPE
DROP INLET PRINCIPAL SPILLWAY**

OPERATOR Jim Peters

CONSERVATION DISTRICT _____

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

	Date	Approved by
Designed		Title
Drawn		Title
Traced		Sheet No
Checked		Drawing No.

SPECIFICATION NOTES

- ~~1. ELBOW, IF REQUIRED, MAY BE FABRICATED BY CONTINUOUS WELDING SEPERATE PIPE SECTIONS OR BY FABRICATING A CONTINUOUS WELDED JOINT ON THE UPSTREAM END OF LAST SECTION OF PIPE.~~
- ~~2. PIPE WALL THICKNESS SHALL BE _____ GAGE OR _____ INCHES.~~

Concrete Riser - ASTM
C-478

PVC - SDR-35

TABLE OF QUANTITIES

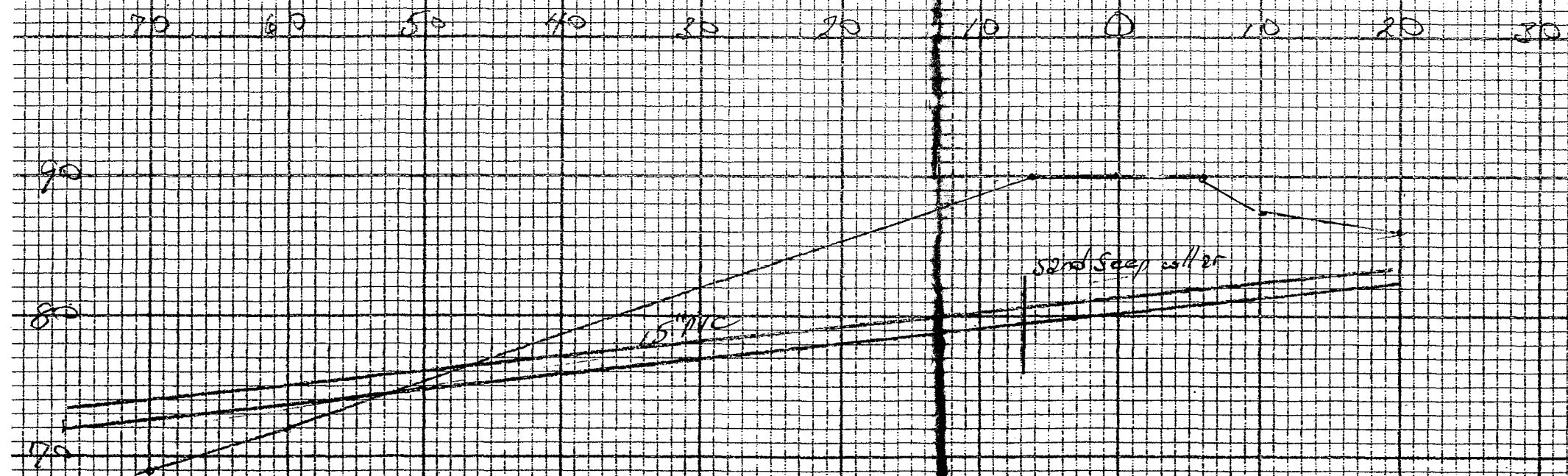
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APPLICABLE STANDARD S.C.S. SPECIFICATIONS:

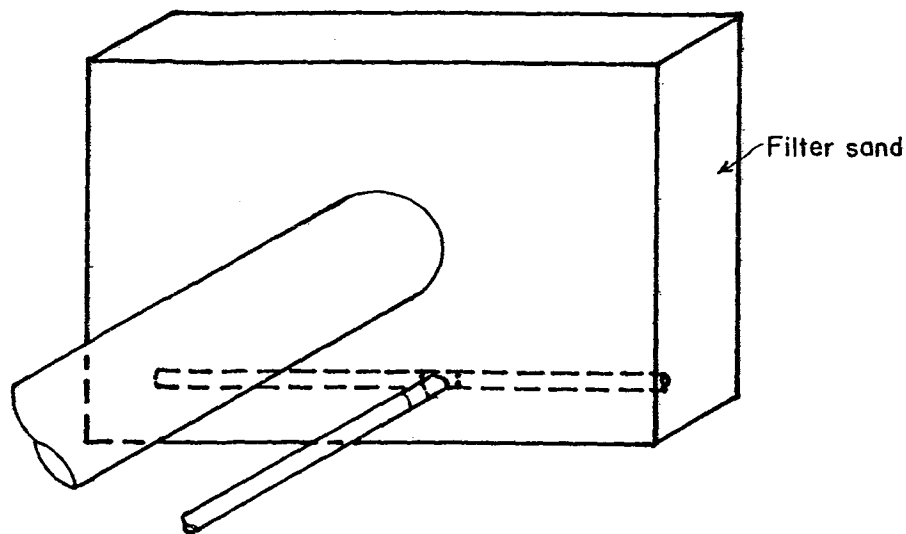
Rev. 8/80
JOB PLAN NO. 2.0

REFERENCE: GUIDE PLAN NO. 2.0

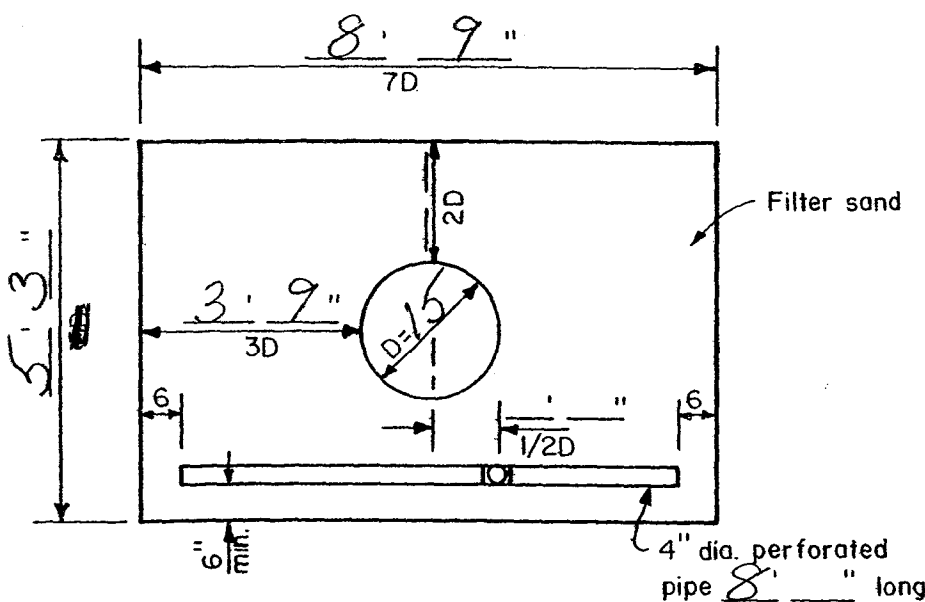
CROSS SECTION AT CREST OF EMERGENCY SPILLWAY AND PROFILE ALONG E OF DAM



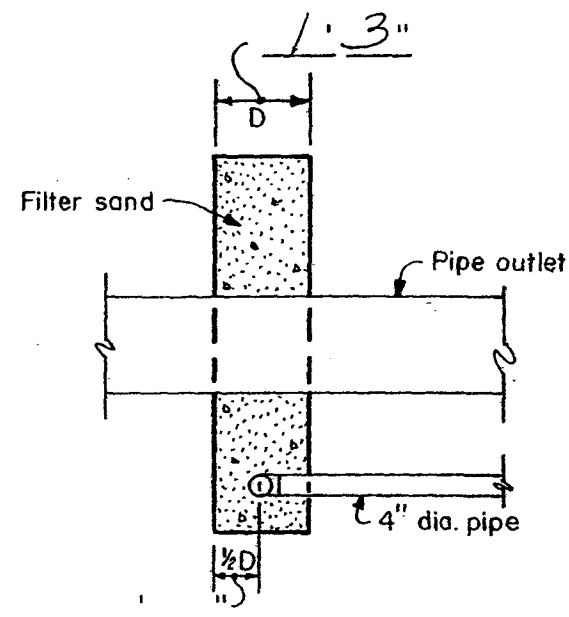
Jim Peters



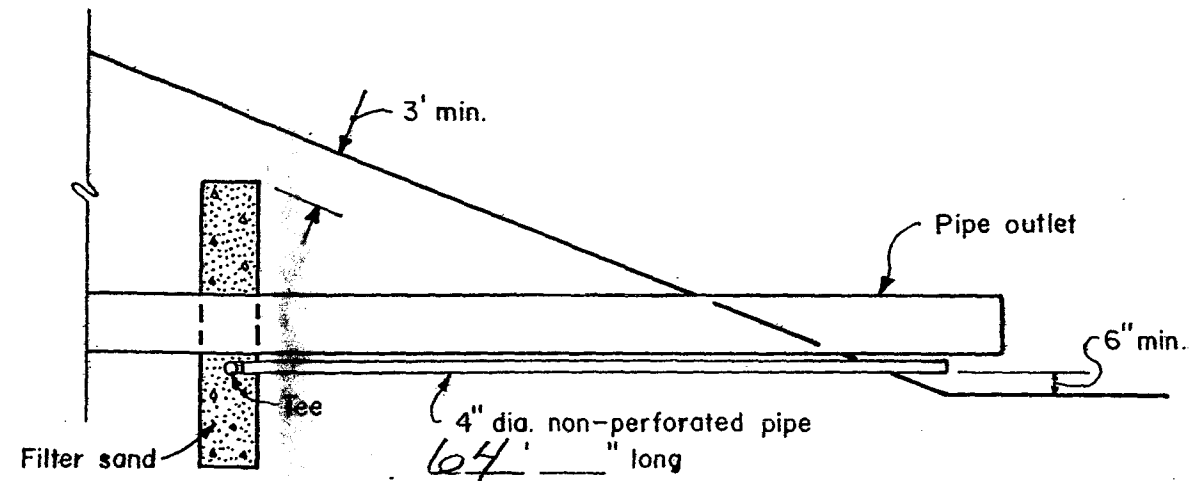
ISOMETRIC VIEW



UPSTREAM VIEW



SIDE VIEW



OUTLET DETAIL

SIEVE SIZE	PERCENT PASSING
3/8"	100
4	95-100
8	80-100
16	50-85
30	25-60
50	10-30
100	2-10

see spec SD-9

2.1 cy

Sec. _____, T. _____, R. _____

County

LOCATION

SAND ANTISEEP COLLAR

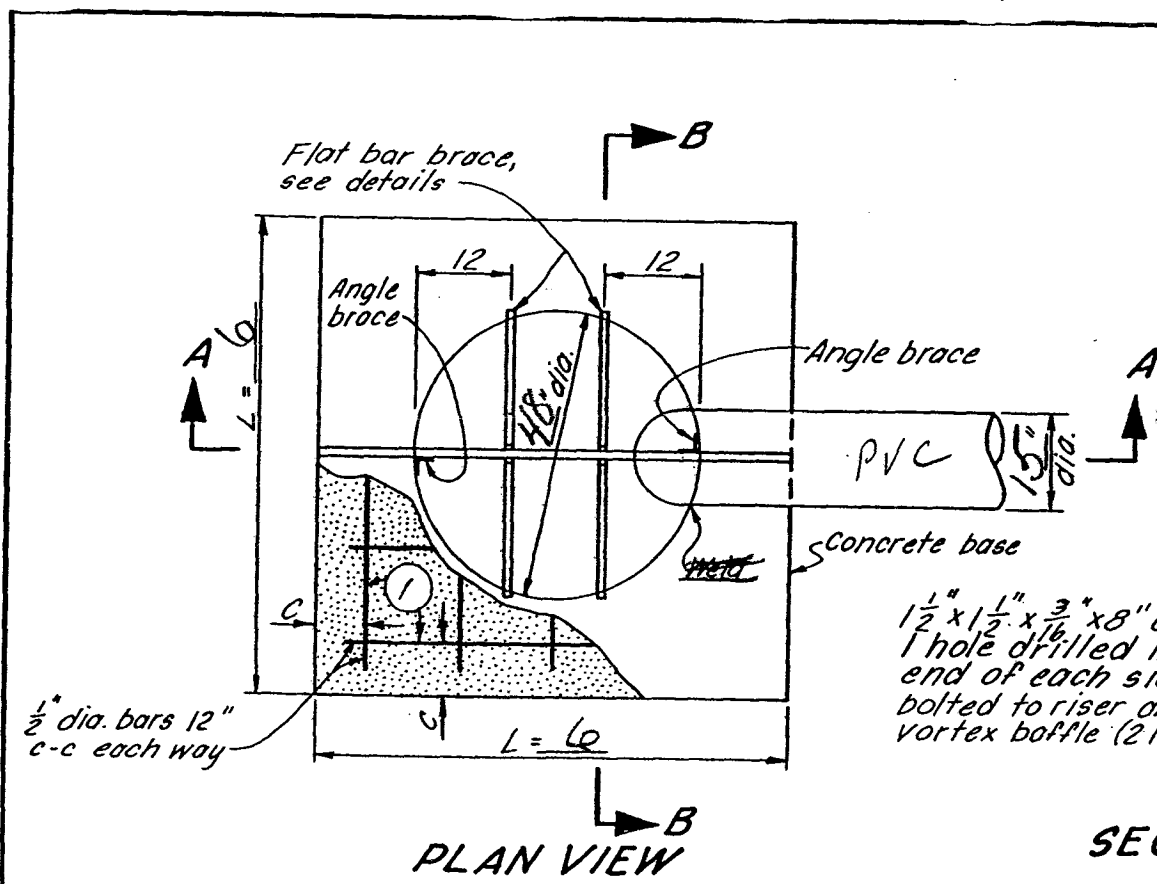
OPERATOR Jim Peters

CONSERVATION DISTRICT _____

Date _____
 Designed _____
 Drawn _____
 Traced _____
 Checked _____
 Approved by _____
 Title _____
 Title _____
 Sheet _____
 Drawing No. _____
 No _____
 of _____

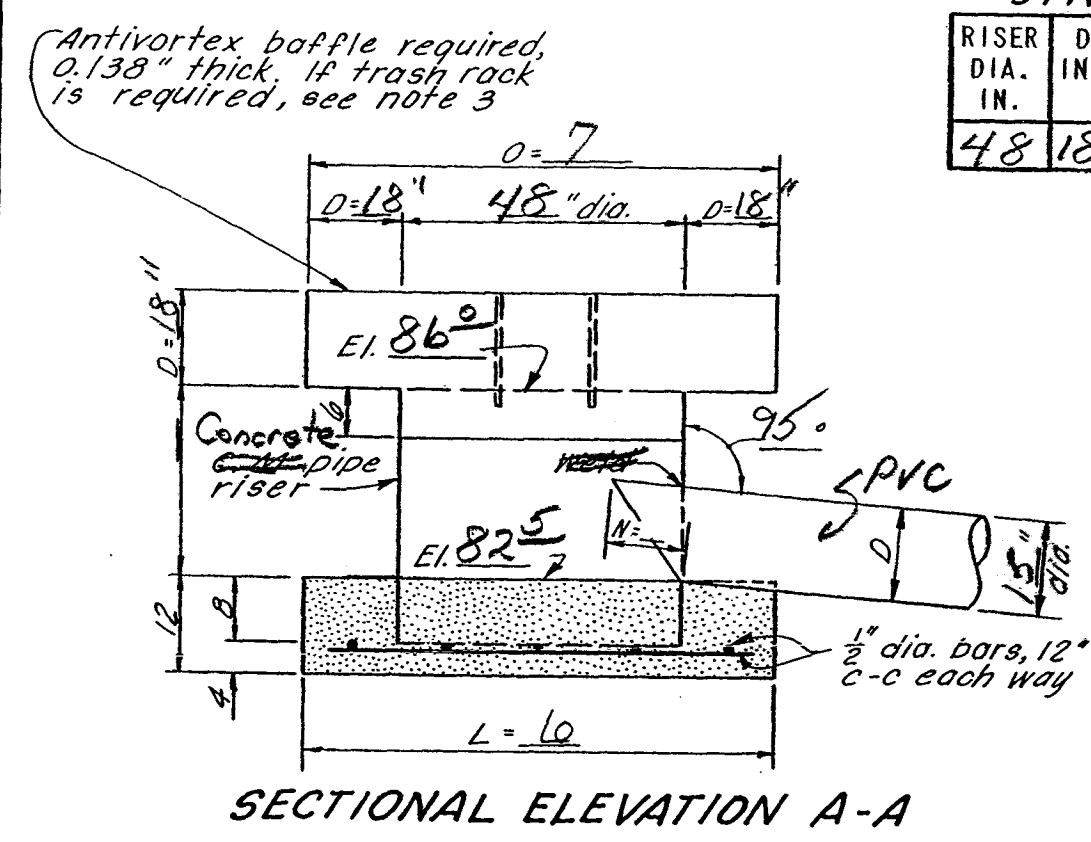
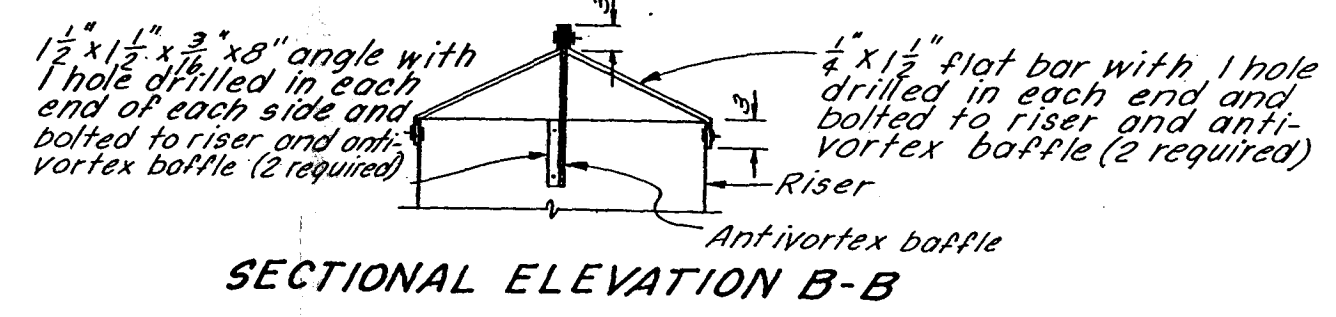
NOTE:

1. THE 4" DIA. PIPE SHALL BE ASTM D1785, SCHEDULE 40, PVC.
2. PROVIDE AN ANIMAL GUARD ON DRAIN OUTLET PIPE. DRILL 2, 1/2" DIA. HOLES, ON $\varnothing$ 6" FROM END OF PIPE AND PLACE A 3/8" DIA., 5 1/2" LONG GALVANIZED STEEL BOLT THRU THEM AND SECURE WITH A NUT (PLACE BOLT HORIZONTAL).



STEEL SCHEDULE AND CONCRETE QUANTITIES

RISER DIA. IN.	BARREL DIA. IN.	BAR SIZE	MARK	TYPE	NO. REQ'D.	LENGTH FT.-IN.	TOTAL LENGTH FT.-IN.	TOTAL WT. LB.	CONC. CU. YD.	C IN.	L FT.-IN.
48	15	4	1	STR	12	5-6	66-0	44	1.3	6	6-0



STRUCTURAL STEEL AND ANTIVORTEX BAFFLE QUANTITIES

RISER DIA. IN.	D IN.	N IN.	O FT.-IN.	BAFFLE AREA SQ. FT.	BAFFLE WT. LB.	1/4" X 1 1/2" FLAT BAR LENGTH, FT. IN.	NO. REQ'D.	FLAT BAR WT. LB.	1 1/2" X 1 1/2" X 3/16" ANGLE INCHES	NO. REQ'D.	ANGLE WT. LB.
48	18	13 1/2	7-0	13	73	2-10	4	15	8	2	2.4

- NOTES:**
- ALL CUTS SHALL BE SAW OR SHEAR CUTS.
 - ALL GALVANIZING DAMAGED BY CUTTING, DRILLING, OR WELDING SHALL BE REPAIRED BY PAINTING WITH TWO COATS OF ZINC DUST-ZINC OXIDE PRIMER.
 - FOR TRASH RACK AND BAFFLE DETAILS, SEE PLAN SERIES 6.
 - ALL BOLTS SHALL HAVE A NUT AND SPLIT WASHER.
 - ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED, CADMIUM PLATED, OR STAINLESS STEEL.
 - HOLES IN BRACES SHALL BE SPACED AND LOCATED TO MATCH CORRUGATIONS IN PIPE AND BAFFLE.

RISER AND HOOD INLET COMBINATION

OPERATOR: Jim Peters

CONSERVATION DISTRICT: _____

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

Designed _____	Date _____	Approved by _____
Drawn _____		Title _____
Traced _____		Title _____
Checked _____		Sheet No. _____ of _____

REFERENCE: GUIDE PLAN NO. 5.4

JOB PLAN NO. 5.4

5, N-29,073.5-4a

Water Permit Application No. 6909-3

Jeanne Remele

Top of Dam Elev. - 91.4
 2nd Spillway Elev. - 88.4
 P. Spillway Elev. - 86
 DIS Emb. Toe Elev. - 68.2

Cat. 3 - Low Hazard Dam

Ht. = 23.2 ft

Normal Storage Capacity - 30.4 A.-Ft
 Int. Storage Capacity - 42.2
 Max. Storage Capacity - 61.8

Int. Capacity x Eff Ht. = $42.2 \times 18.5 = 780 < 3000 \therefore 25\text{-yr}$
Minimum Spillway Design

From USGS WRI 98-4055 "Tech for Est Peak Flows ... in SD"
 $DA = 600 \text{ ac} = 0.94 \text{ mi}^2$
 Region B $P_H = 0.83$

$$Q_{25} = 148 CA^{.584} P_H^{.730}$$

$$= 148 (.94)^{.584} (.83)^{.730}$$

$$= 148 (.9645) (.8728)$$

$$= \underline{125 \text{ cfs}}$$

$$Q_{100} = 275 CA^{.625} P_H^{.742}$$

$$= 275 (.94)^{.625} (.83)^{.742}$$

$$= 275 (.9621) (.8709)$$

$$= \underline{230 \text{ cfs}}$$

Secondary Spillway Flow

$$Q = CLH^{3/2}$$

$$C = 2.6 \quad L = 40 \quad H = 3$$

$$= 2.6(40)(3)^{1.5}$$

$$= \underline{540 \text{ cfs}}$$

NRCS Annual Yield

Section 74:02:08:29

$DA = 600 \quad ISO = 2\frac{1}{2} \quad CN = 75$

1. Topo Map - OK
2. Dam Axis Profile - OK
3. Dam Max X-Sec - OK
4. Area - Capacity - OK
5. Outlet Details - OK
6. Spillway Routing - OK
7. Spillway Details - OK
8. Specs - Std. NRCS - OK
9. EPP - Cat 3 N/H - OK

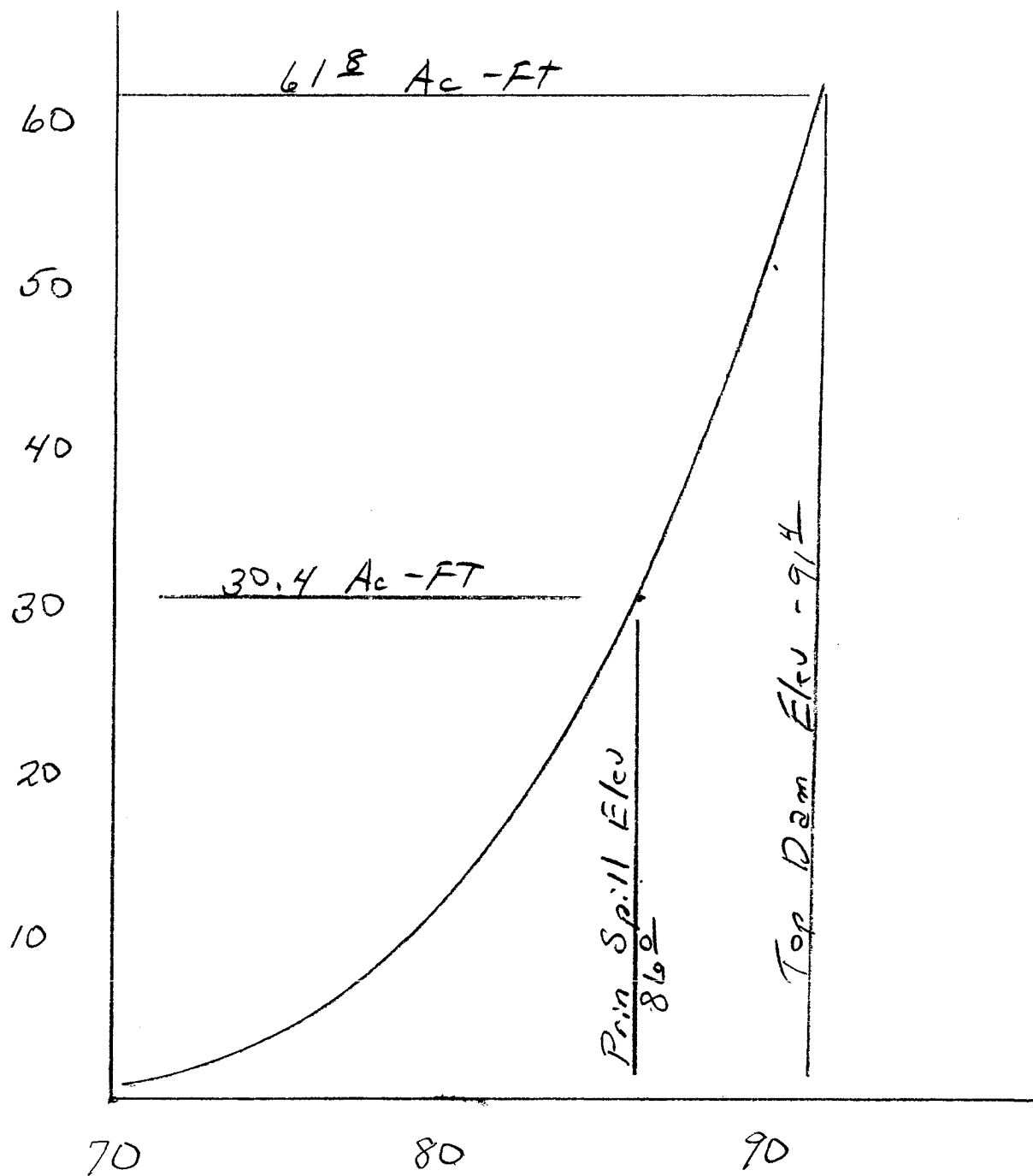
80% chance = 0.18
 $0.18 \times 600/12 = \underline{9 \text{ A.-Ft}}$

50% chance = 0.46
 $0.46 \times 600/12 = \underline{23 \text{ A.-Ft}}$

10% chance = 2.2
 $2.2 \times 600/12 = \underline{110 \text{ A.-Ft}}$

COMPUTATION SHEET

BY	DATE	PROJECT	SHEET ____ OF ____
CHKD BY	DATE	FEATURE	
DETAILS <i>Jim Peters - SE Sec 6, T126 N, R56 W</i>			



=====

POND DESIGN

=====

WinPond 1.5.2405.11111

Project ---- : Pond Repair

Description :

State ----- : South Dakota

County ----- : Marshall

Landowner -- : Jim Peters

Township --- : 126N

Range ----- : 56W

Section ---- : SE-6

Tract ----- :

Field ----- :

Designed By : Dave Konechne

Date designed: 9/2/2007

Date printed : 9/2/2007

Approved By : _____

Date : _____

File Name : C:\data\Engineering\peters\se-6-126-56.prj

PLANNED IN COOPERATION WITH USDA-NRCS

Office Name
Address1
Address2
City

Project --- : Pond Repair
 Prepared for: Jim Peters
 Prepared by : Dave Konechne
 checked by : _____

TWP : 126N RNG : 56W
 SEC : SE-6 FLD :
 Date: _____

***** JOB APPROVAL CLASS *****

Hazard Class	Low	A
Effective Height	Feet	18.5
Effective Storage	Ac-Ft	42.2
Overall Height	Feet	22.1
Total Storage	Ac-Ft	65.3
Storage X Effective Height	Ac-Ft Ft	780
Contributing Drainage Area	Acres	600
Contributing Drainage Area	Square Miles	0.94
Pipe Conduit Capacity	CFS	20.8
Open Channel Spillway Design Flow	CFS	263.1
Peak Inflow Aux Spillway Design Storm	CFS	420.8
Conduit - Inside Diameter	Inches	15
Conduit Material		SDR
Inlet Type		Box Hood
Job Approval Class		
INVENTORY SIZE DAM		

***** ELEVATION-STORAGE INPUT DATA *****

ELEV (ft)	POOL AREA (acres)	INT.STORAGE (ac.ft.)	ACCUM.STORAGE (ac.ft.)
70.0	0.00		0.00
86.0	3.80	30.40	30.40
88.5	5.60	11.75	42.15
90.0	6.30	8.93	51.08

***** STORAGE VOLUMES *****

	ELEVATION (ft)	AREA (acres)	STORAGE (ac.ft.)
Inlet (Princ. spillway)	86.0	3.80	30.40
Aux. spillway	88.5	5.60	42.15
Max. water	91.0	6.78	57.75
settled top of fill	92.1	7.28	65.33
sediment - above inlet			0.00
- below inlet			0.00
Inlet to Aux.			11.75
Aux. to max. water			15.60

RUNOFF CURVE NUMBER DETERMINATION

Acres & (curve numbers) for
 Hydrologic soil Group

COVER DESCRIPTION

A B C D

ACCUMULATED: 600.00 Acres

WEIGHTED CURVE NUMBER: 75.0

Project --- : Pond Repair
 Prepared for: Jim Peters
 Prepared by : Dave Konechne
 Checked by : _____

TWP : 126N RNG : 56W
 SEC : SE-6 FLD :
 Date: _____

***** HYDROLOGIC DATA *****

Rainfall distr. type ----- :	II		
Drainage area, acres ----- :	600.0	Watershed slope, % :	8.0
Runoff curve number ----- :	75	Flow length, ft. - :	11000
Time of concentration, hrs :	1.48		
(min.: 88.84)			
----- Spillway -----			
	Principal	Auxiliary	
Design frequency, yrs.:	2	25	
24 hr. Rainfall, in. :	2.3	4.2	
Runoff, in. ----- :	0.5	1.8	
Peak inflow, cfs ---- :	105.28	420.84	
Peak outflow, cfs --- :	20.82	263.15 A.S.	
		22.34 P.S.	

***** PRINCIPAL SPILLWAY TRIALS *****

Inlet type: Box Hood Inlet Elevation: 86.0

	TRIAL 1	TRIAL 2	TRIAL 3
CONDUIT: Type -----	SDR		
Diameter, in. --	15.00		
Height, in. ----			
Width, in. -----			
Manning's n ----	0.011		
Inlet ext., ft. -	0.0		
Length, ft. ----	105.0		
Entrance Coefficient, Ke	1.000		
RISER : Type -----	RC		
Diameter, in. --	48.00		
Length, in. ----			
Width, in. -----			
Weir length, in.	150.80		
Crest radius, in.			
Invert elevation -----	82.50		
Auxiliary elevation -----	88.5		
STORAGE (ac.ft.):			
Temporary (PS-AS) ----	11.75		
Total at Auxiliary ---	42.15		
Effective height, ft. ---	18.5		
Height x storage -----	780		
Drawdown time, days-hrs.	0-9.6		
Trial used -----	1		

CONDUIT TYPES ----- : SDR-26 - PVC SDR-26 Pipe

Project --- : Pond Repair
 Prepared for: Jim Peters
 Prepared by : Dave Konechne
 Checked by : _____

TWP : 126N RNG : 56W
 SEC : SE-6 FLD :
 Date: _____

***** AUXILIARY SPILLWAY DETAILS *****
 Discharge determination: Qe values from ASFILE

Auxiliary elev. :	88.5	Retardance ----- :	B
Bottom width, ft. :	40	Level sect. length, ft.:	50
Flow depth, ft. - :	2.52	Side slope ratio, n:1 :	3.00
EXIT CHANNEL -			
Max. Vel., fps - :	6.0	Retardance ----- :	B

Flow, cfs ----- :	263.15	Exit slope, % --- Min.:	4
		Max.:	6
Settled fill elev.:	92.1	Drawdown time, days-hrs:	0-18.6
Channel elev. --- :	70.0	Overall height, ft. -- :	22.1
(downstream toe)			

***** CONDUIT DETAIL *****

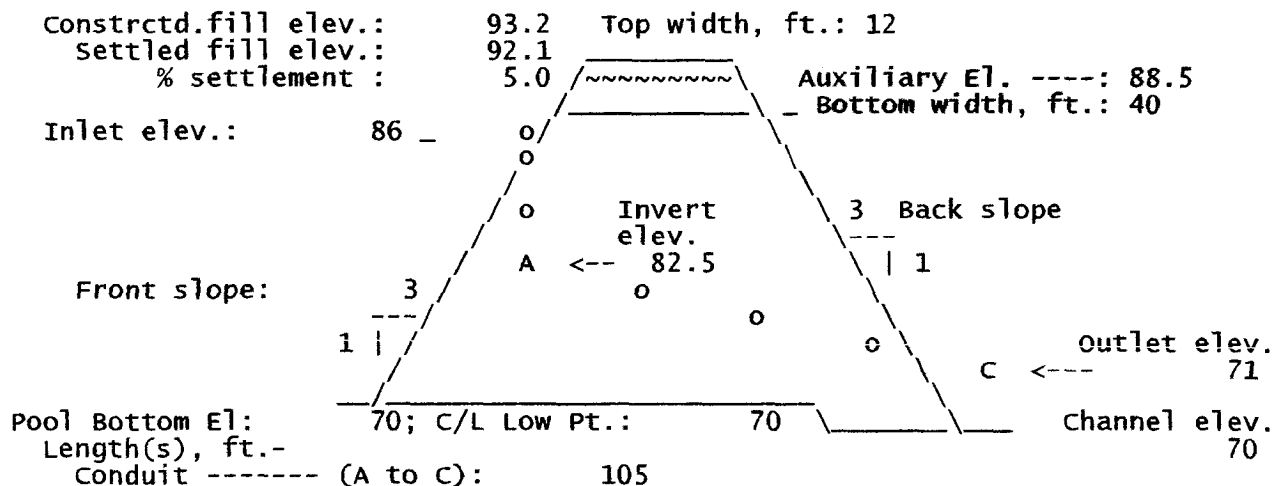
Inlet Type -----	BOX_HOOD
Conduit Type -----	SDR-26 - PVC SDR-26 Pipe
Diameter, in. -----	15.00
Inlet extension, ft --	0.0
Length, lin. ft. -----	0.0 Extends 6.0 ft. beyond dnstr.toe
Length, lin. ft. -----	105.0 Pipe length used in routing
Slope, % -----	11.1
Max.fill over pipe, ft.	12.8

Horizontal Distances (ft.)	
Upstrm: edge of top width to inlet end of pipe :	20.0
Dnstrm: edge of top width to toe ----- :	65.7

***** DESIGN ELEVATIONS (at principal spillway) *****

Inlet type: BOX_HOOD

NOT TO SCALE



Project --- : Pond Repair
 Prepared for: Jim Peters
 Prepared by : Dave Konechne
 Checked by : _____

TWP : 126N RNG : 56W
 SEC : SE-6 FLD :
 Date: _____

***** SUMMARY *****

Inlet type: BOX_HOOD Inlet Elevation: 86

CONDUIT: Type -----	SDR-26 - PVC SDR-26 Pipe
Diameter, in. ---	15
Length, lin. ft. -	105 Extends 6 ft. beyond dnstr.toe
RISER : Type -----	RC - Reinforced Concrete
Diameter, in. ---	48
Height, ft. -----	3.5 = Inlet elev. - Invert elev.
AUX. : Elevation -----	88.5
Bottom width, ft.	40
Hp, flow depth, ft.	2.52
Exit slope, % min.	4
max.	6
Effective height, ft. ----	18.5 = AS elev. - low pt. on C/L
Height x storage -----	780
Overall height, ft. -----	22.1 = stld. fill elev - chan. elev
NOTE -----	***** INVENTORY SIZE DAM

***** PROJECT DEFAULTS *****

Design based on -----	Settled slopes
Berms settled -----	False
Auxiliary spillway to Top of Dam: -----	2.0 (ft)
Freeboard -----	1.0 (ft)
Minimum bottom width -----	10.0 (ft)
Maximum bottom width -----	150 (ft)
Feet above inlet (Drawdown) -----	1.0 (ft)
Percent or storage drained (Drawdown) -----	85.0 (ft)
Minimum flow (Drawdown) -----	0.1 (cfs)
Orifice Coefficient -----	0.71 (ft)
Full Pipe Flow Required? -----	Yes
Stage required above Prin. Spwy. Crest: -----	0.5 (ft)
Max. drainage area for required stage: -----	20.0 (acres)

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10/12, 20 07

RECEIVED OF Jeanne Remele PO Box 588 Britton SD 57430

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6909-3</u> to Appropriate Water, to construct and to put water to beneficial use	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6909-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	200 00

No.

03182


Chief Engineer





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6909-3, Jeanne Remele**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6909-3, Jeanne Remele, 310 9th Avenue, Britton SD 57430.

The Chief Engineer is recommending APPROVAL of Application No. 6909-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Water Permit No. 6909-3 authorizes a dam with a storage capacity of 30.4 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

See report on application for additional information.

Garland Erbele, Chief Engineer
October 31, 2007

REPORT ON
WATER PERMIT APPLICATION NO. 6909-3
Jeanne Remele
October 29, 2007

Water Permit Application No. 6909-3 has been filed by Jeanne Remele, to impound 30.4 acre-feet of water from runoff by reconstructing a dam located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 6-T126N-R56W, in Marshall County. The application also requests impoundment of sufficient water to maintain water to the outlet elevation. The water will be used for fish and wildlife production, recreation and livestock water purposes.

Discussion:

The dam will be classified as a small size, Category 3, Low Hazard dam. The dam has been designed by Konechne Engineering. The plans and specifications have been reviewed and will be approved; however, reconstruction of the dam can not begin until Water Permit Application No. 6909-3 is approved.

The reconstructed dam will be 23 feet high with a normal storage capacity of 30.4 acre-feet with a reservoir level at the primary spillway elevation, and a maximum storage capacity of 62 acre-feet with a reservoir level at the top of dam elevation. A dam of this size and hazard classification is required to have a minimum spillway design capable of passing a 25-year frequency event.

The dam has a drainage area of 600 acres or 0.94 square miles. The dam is designed to have a 48 inch diameter concrete riser with a 15 inch diameter PVC barrel with 5.4 feet of freeboard as the primary spillway, and a 40 foot wide earthcut secondary spillway with 3.0 feet of freeboard. A 25 year frequency event produces a peak runoff of approximately 125 cfs and a 100 year frequency event produces a peak runoff of approximately 230 cfs. The earthcut spillway will have a capacity of approximately 540 cfs.

The annual yield for this drainage area with an 80 percent chance of occurrence, or 8 out of 10 years, is expected to be 9.0 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 23.0 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 110 acre-feet.

The Remele Dam will be located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 6-T126N-R56W on Oak Gulch, about 5 miles upstream of the confluence of Oak Gulch and Crow Creek. There are no existing Water Permits/Rights filed on Oak Gulch between the proposed dam and Crow Creek; however, Jeanne Remele has filed two Location Notices No. 74771 and 74772 for two dams located about one-half mile upstream and downstream of Water Permit Application 6909-3. The upstream dam, located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 8-T126N-R56W claims 10.3 acre-feet of storage in Location Notice No. 74771; and the downstream dam, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 6-T126N-R56W claims 14.4 acre-feet of storage in Location Notice No. 74772. Both of these Location Notices were filed in August of 1998.

Conclusions:

1. Water Permit Application No. 6909-3 should be approved since unappropriated water is available and approval should not have any adverse effect on existing Water Permits/Rights.
2. If approved, the low flow bypass requirement for domestic use should be a qualification on Water Permit Application No. 6909-3.



Timothy G. Schaal, P.E.
Natural Resources Engineering Specialist



**DEPARTMENT of ENVIRONMENT
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www.state.sd.us/denr

October 31, 2007

Jeanne Remele
310 9th Ave.
Britton, SD 57430

Dear Ms. Remele:

We have reviewed the plans and specifications for your dam project located in the SW ¼ SE ¼ of Sec. 6-T126N-R56W, in Marshall County. The plans and specifications for the reconstruction of your dam are approved. Approval of the plans and specifications does not authorize reconstruction of the dam. The reconstruction of the dam may not begin until Water Permit No. 6909-3 is approved.

Our review was to determine compliance with the requirements of the Water Management Board Safety of Dams Rules, Chapter 74:02:08. Approval of these plans and specifications does not release you, as owner of the dam, from the responsibility for operating and maintaining the dam in good repair to ensure the safety of the dam.

The Remele Dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 23 ft. and a normal storage capacity of 30.4 acre-feet and a maximum storage capacity of 62 acre-feet.

If you have any questions, please feel free to contact us.

Sincerely,

Timothy G. Schaal, P.E.
Natural Resources Engineering Specialist
for Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

c: Dave Konechne, Konechne Engineering

AFFIDAVIT OF PUBLICATION

NOV 29 2007

STATE OF SOUTH DAKOTA, County of Marshall.
2T (Nov. 7-14)

WATER RIGHTS
PROGRAM

NOTICE OF APPLICATION

NO. 6909-3 to Appropriate Water

Notice is given that Jeanne Remele, 310 9th Ave, Britton SD 57430 has filed an application for a water permit to impound 30.4 acre-feet of water from runoff by reconstructing an existing dam located in the SW 1/4 SE 1/4 Section 6 with water impounded in the S 1/2 SE 1/4 Section 6 and NE 1/4 NE 1/4 Section 7; all in T126N-R56W. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation, recreational and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6909-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 26, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

county, being first duly sworn on oath says that he is publisher of the BRITTON JOURNAL, a weekly newspaper printed and published in the City of Britton, in the County of Marshall, and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly and has been published within said County for fifty-two successive weeks, next prior to the publication of the notice herein mentioned and is printed wholly or in part in an office at said place of publication;

that the

*Notice of Application No. 6909-3
to Appropriate Water - Jeanne Remele*

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet and is made a part of this affidavit, was published in said newspaper at least once each week for two successive weeks, on the day of each week on which said newspaper was regularly published, to wit:

November 7, 2007

November 14, 2007

that the full amount of the fee charged for the publication of said notice inures to the benefit of publisher of said newspaper, that no agreement or understanding for the division thereof has been made with any person, and that no part thereof has been agreed to be paid to any other person whomsoever, and that the fee for the publication thereof

Thirty-nine and ⁹⁹/₁₀₀
Dylan M. Buhl

Subscribed and sworn to before me this

14th

November A. D., 2007

Kim M Buhl

Notary Public, Marshall County, S. D.

My Commission Expires March 12, 2010





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
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523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 31, 2007

Britton Journal
PO Box 69
Britton SD 57430

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6909-3 to Appropriate Water to be published twice. Please publish the first notice on November 7, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Jeanne Remele, 310 9th Ave, Britton SD 57430 (Ph # 605-448-5636).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6909-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of October 31, 2007 enclosing Notice to Appropriate Water by Application No. 6909-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

October 31, 2007

Jeanne Remele
310 9th Ave
Britton SD 57430

Dear Ms. Remele:

Water Permit Application No. 6909-3 for recreational, fish and wildlife use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Britton Jurnal printed at Britton SD (Ph # 605-448-2281). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and reports on the applications are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notices and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

Instruction to Newspaper - Publish first Notice on November 7, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6909-3 to Appropriate Water

Notice is given that Jeanne Remele, 310 9th Ave, Britton SD 57430 has filed an application for a water permit to impound 30.4 acre-feet of water from runoff by reconstructing an existing dam located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 6 with water impounded in the S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 6 and NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 7; all in T126N-R56W. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation, recreational and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6909-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 26, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JAN 24 2000

Jeanne Remele
310 9th Ave
Britton SD 57430

Dear Ms. Remele:

Enclosed is Water Permit No. 6909-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet ? *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

JUL 18 2008

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 7/17/2008

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Jeanne Remele
(name)
310 9th Ave.
(address)
Britton SD 57430 605-448-5636
(city, state, zip) (phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

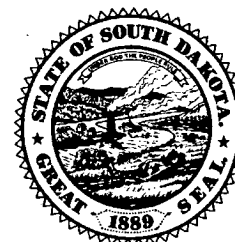
Water Permit No. 6909-3 states that the water use system is to be constructed by
11/26/2012, and water is to be put to beneficial use by 11/26/2012.
(date) (date)

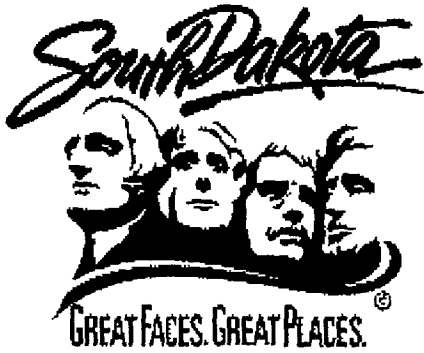
The water use system was completed on 7/14/2008.
(date)

Applying the water to beneficial use was completed on 7/14/2008.
(date)

You may schedule an investigation so that the water license may be issued.

Jeanne Remele
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

July 18, 2008

6909-3

Jeanne Remele
310 9th Ave
Britton SD 57430

Dear Ms. Remele:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the project authorized by Water Permit No. 6909-3.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Permit No. 6909-3
James River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, October 10, 2013, made a thorough examination of the water use system constructed by Jeanne Remele of 310 9th Ave., Britton, SD 57430 holder of Permit No. 6909-3, bearing the priority of October 12, 2007 authorizing the storage of 30.4 acre-feet of the waters of runoff for fish & wildlife propagation, recreation and livestock water purposes, in Marshall County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

A 23.2 ft. high earthen dam with a normal storage capacity of 30.4 acre-feet of water.

B. Works used to transport water to place of use:

N/A

C. Works used to apply water to beneficial use:

A 23.2 ft. high earthen dam with a normal storage capacity of 30.4 acre-feet of water.

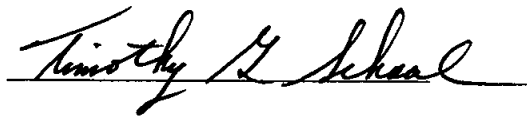
The system is in the following condition good. The point of diversion is located 400 ft. north & 1600 ft. west of the SE corner of Sec. 6-T126N-R56W, SW ¼ SE ¼ (Lat. 45.74782 Long. -97.59299). The works are capable of storing 30.4 acre-feet of water which is to be used for fish & wildlife propagation, recreation and livestock water. Water has been put to beneficial use to the maximum extent as follows:

A 23.2 ft. high earthen dam with a normal storage capacity of 30.4 acre-feet of water.

and the license should be issued for 30.4 acre-feet of storage.

Applicable permit qualifications have been complied with: Yes X

Exceptions to compliance are: none Date Report Completed: February 7, 2014



Timothy G. Schaal, P.E.
Engineer IV
SD DENR, Water Rights Program

REPORT ON INSPECTION OF PERMIT NO. 6909-3

DATE OF INSPECTION: October 10, 2013

NAME & ADDRESS OF PERMIT HOLDER: Jeanne Remele, 310 9th Ave., Britton, SD 57430

DIVERSION POINT LEGAL LOCATION: 400 ft. north & 1600 ft. west of the SE corner of Sec. 6-T126N-R56W, SW ¼ SE ¼ (Lat. 45.74782 Long. -97.59299.

DAM INFORMATION:

- 1) Height to crest 23.2 feet
- 2) Height to primary spillway 17.8 feet
- 3) Height to secondary spillway 20.2 feet
- 4) Crest width 12 feet
- 5) Crest length 400 feet
- 6) Spillway length XXX feet
- 7) Spillway width 40 feet
- 8) Approx. storage (Normal) 30.4 acre-feet
- 9) Approx. storage (Maximum) 61.8 acre-feet
- 10) Date constructed: 2007

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit N/A
- 2) Special qualifications to permit being abided by yes
- 3) All structures, wells and lands on map yes
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A

Water Permit Application No. 6909-3



Center of
Sec. 6-T126N-R56W

1600 ft.

400 ft.



Timothy G. Schaal

Timothy G. Schaal, P.E.
Engineer IV
SD DENR, Water Rights Program

2/7/14



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

FEB 20 2014

6909-3

Jeanne Remele
310 9th Ave
Britton SD 57430

Dear Ms. Remele:

Enclosed is Water License No. 6909-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6909-3

(1) Jeanne Remele, 310 9th Ave, Britton SD 57430 made Application No. 6909-3, October 12, 2007 for a water permit to impound 30.4 acre feet of water from runoff in a dam located in Marshall County, South Dakota and used for fish & wildlife propagation, recreation and domestic livestock water purposes. Permit No. 6909-3, with a priority date of October 12, 2007 was approved November 26, 2007 and issued to the applicant for impoundment of water with construction of the storage dam to be completed on or before November 26, 2012 and the application to beneficial use of water on or before November 26, 2012.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the storage dam and is entitled to impound 30.4 acre feet of water for beneficial use with sufficient water annually to maintain the water level to the outlet elevation.

The location of the storage dam (spillway) is 400 feet north and 1,600 feet west of the SE corner of Section 6, T126N, R56W (SW ¼ SE ¼). Water is impounded in the S ½ SE ¼ Section 6 and the NE ¼ NE ¼ Section 7, T126N, R56W.

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Jeanne Remele, 310 9th Ave, Britton SD 57430 the holder and/or owner of Water Right No. 6909-3 is issued a license to impound 30.4 acre feet water from runoff in a storage dam with a priority date of October 12, 2007 from the location specified in (2) of this license. The water is used for fish and wildlife propagation, recreation and domestic livestock watering.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6909-3 and subject to the following qualifications:

- Water Right No. 6909-3 authorizes a dam with storage capacity of 30.4 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be bypassed.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 20 2014

date

