

WATER PERMIT NO. 1619-1

Phone: 605 365-5148

Name of Applicant: Erling Olson

Post Office Address: PO Box 526, Dupree SD 57623-0246

Amount of Water Claimed: 44 acre-feet Total Acres: _____

Source of Water Supply: dry draw - runoff

Water to be used for: livestock watering County: Ziebach

Location: 15 miles southwest of Dupree

PRIORITY Date Received: 3-21-95 Fee: \$150.00

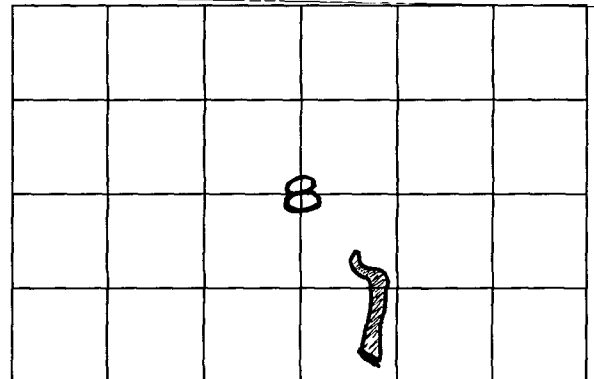
Corrected Application Received: 3-29-95 Period of Annual Use: Jan 1 - Dec 30

Remarks: _____

Diversion Point: SW 1/4 SE 1/4 Sec 8-T10N-R20E

Water Impounded: _____

E 1/2 SE 1/4 Sec 8-T10N-R20E



Well Log: Driller: _____ Licensed: YES ____ NO ____

Depth of Well: _____ REMARKS: _____

Type of Map: topo Prepared By: Dennis Ellefson, SCS Reviewed and the Number

Assigned on: 3-29-95 By: Karen Schlaak

**SOUTH DAKOTA
WATER PERMIT NO. 1619-1**

Date of first receipt of application March 21, 1995.

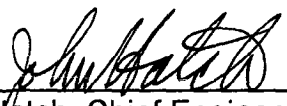
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1619-1 to Erling Olsen, PO Box 526, Dupree SD 57623 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1619-1 authorizes impoundment of 44 acre-feet of water from runoff by constructing a dam located in the SW 1/4 SE 1/4 Section 8 with water impounded in the E 1/2 SE 1/4 Section 8; all in T10N-R20E.
2. The water appropriated shall be used for the purpose of supplying water for livestock water and may not exceed the amount of water needed for beneficial use for livestock watering purposes.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date of approval of Permit No. 1619-1 is May 22, 1995.
5. The date from which applicant may claim right is March 21, 1995.
6. One-fifth of the construction is to be completed on or before November 22, 1997.
7. All construction is to be completed on or before May 22, 2000.
8. Water is to be put to beneficial use on or before May 22, 2004.
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. 1619-1 authorizes a dam with a storage capacity of 44 acre-feet of water annually.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

WATER MANAGEMENT BOARD

By: 
John Hatch, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

SEP 5 1995

date

Mail to:
Water Rights Division
Joe Foss Building
523 E Capitol
Pierre SD 57501-3181
605 773-3352

No. 1619-1 Hydrologic Unit 10120113
Basin Lower Cheyenne
Newspaper West River Progress, Box 190, Gettysburg
(office use only)



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

Check use of water:

☐ Municipal ☐ Suburban Housing ☐ Recreational ☐ Institutional
☐ Rural Water System ☐ Commercial ☐ Fish & Wildlife ☐ Geothermal Heat
☐ Domestic ☐ Industrial ☒ Other LIVESTOCK
(over 18 gpm)

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 ERLING OLSEN Phone 605-365-5148
Mailing Address P.O. Box 526 Dupree State S.D. 57623-0246
(Street, RR, or Box) (City) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM 44 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acres Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply DRY DRAW
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
SW⁴ SE⁴ S-8 T-10N R-20E Water Impounded: E¹/₂ SE¹/₄
SEC 8-T10N-R20E County ZIEBACH
- County or counties where water will be used ZIEBACH
- Annual period during which water is to be used 12 months use 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)
Pond will supply Quality water for livestock. Embankment Pond will be constructed to soil conservation service specifications

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)

STATE OF SOUTH DAKOTA)

County of Ziebach)^{ss}

I, Erling Olsen, 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.

Signed

Subscribed and sworn to before me this 20th day of March 19 95

Glenice J. Abbeach
Notary Public

expires: 11-01-2000

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 Thickness _____ 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. Dugout Information

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

3. 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:

Soil Conservation Service
Box 246
Dupree, S.D. 57623-0246

- b) Freeboard 3'
- c) Crest Width 12'
Crest Length 484'

- d) Height 18'

- e) Primary Outlet Capacity N.A.

If pipe, diameter N.A.

- f) Secondary Spillway Capacity 300 cfs

Spillway Width 60'

- g) X & Y Slope

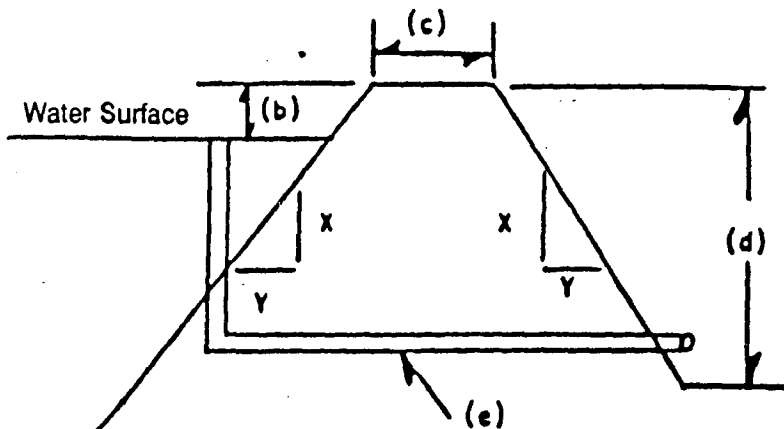
Upstream 3:1

Downstream 2:1

- h) Surface Area of Impoundment 7.7 Ac

- i) Storage 44 Ac. FT Acre Feet

- j) Drainage Area above Dam 900 Acres



RECEIPT

414442

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ March 21, 19 95

RECEIVED OF Erling Olsen, PO Box 526, Depree, SD 57623

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

Fee for Application for Permit No. <u>1619-1</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. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	150 00

By John Hatch
Chief Engineer



Erling Olsen
Ehrling Olson

Stage P.A Storage

2244'	0	0	
2251	13.3	7.8 ac.	41 ac-ft
2254	14.3	7.7 ac	44 ac-ft
2255	14.3	7.7 ac	44 ac-ft
2261	19.3	12.0 ac	83 ac-ft

B - Regent - Rhoades - C/D

DC - Reeder - Lantry B/B

- 14,000

pe - 5.5%

min Clifton C.L.
Conservation Service

Water Permit Application #1619-1
 Erling Olsen
 Ziebach Co.

Top of Dam Elev. - 100
 Spillway Elev. - 97
 Bottom Elev. - 82 } Height = 18 ft

Call Dennis Ellefson, SCS Faith, on 4/4/95 about the Hazard Classification. He said it would be a Class A, or Cat. 3 Low Hazard Dam. Therefore, 25 year Minimum Spillway Design

DA = 900 Acres = 1.4 mi.²
 Slope = 45 ft/mi.
 SI = 2.50

From USGS - WRI 80-80 $Q_{25} = 83.4 A^{.60} S^{.44} S_i^{-.72}$
 $= 83.4 (1.4)^{.60} (45)^{.44} (2.50)^{-.72}$
 $= 83.4 (1.22) (5.34) (0.52)$
 $= 284 \text{ cfs}$

$Q_{100} = 132 A^{.65} S^{.46} S_i^{-.67}$
 $= 132 (1.4)^{.65} (45)^{.46} (2.50)^{-.67}$
 $= 132 (1.24) (5.34) (0.54)$
 $= 472 \text{ cfs}$

Designed with 60 ft. Spillway with 3 ft head

$Q = CLH^{3/2} = 2.6 (60) (3)^{1.5} = 810 \text{ cfs} \therefore \underline{\underline{OK}}$

Section 74:02:08:09

SCS Annual Yield

1. Topo Map - OK
2. Dam Axis Profile - OK
3. Dam X-sec. - OK
4. Area - Capacity Data - OK
5. Outlet Details - N/A - OK
6. Spillway Rating - Design Table - OK
7. Spillway Details - OK
8. Specs - std - OK
9. EPP - Cat. 3 N/A - OK

DA = 900 Ac

CN = 70

ISOGRAM = 2

50% chance = 0.22 Ac-In/Acre
 $.22 \times 900/12 = 16.5 \text{ Ac-Ft.}$

10% chance = 1.2 Ac-In/Acre
 $1.2 \times 900/12 = 90 \text{ Ac-Ft.}$

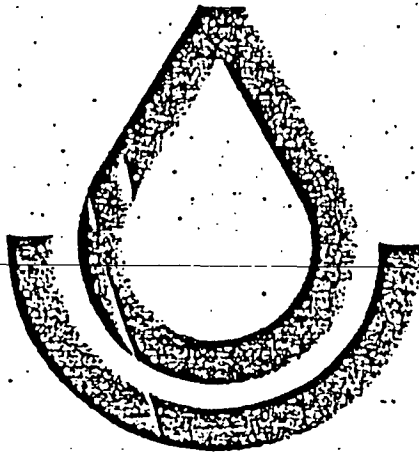
CONSTRUCTION SPECIFICATIONS

for

DAM

EHRLING OLSON

ZIEBACH CO.



Prepared by:

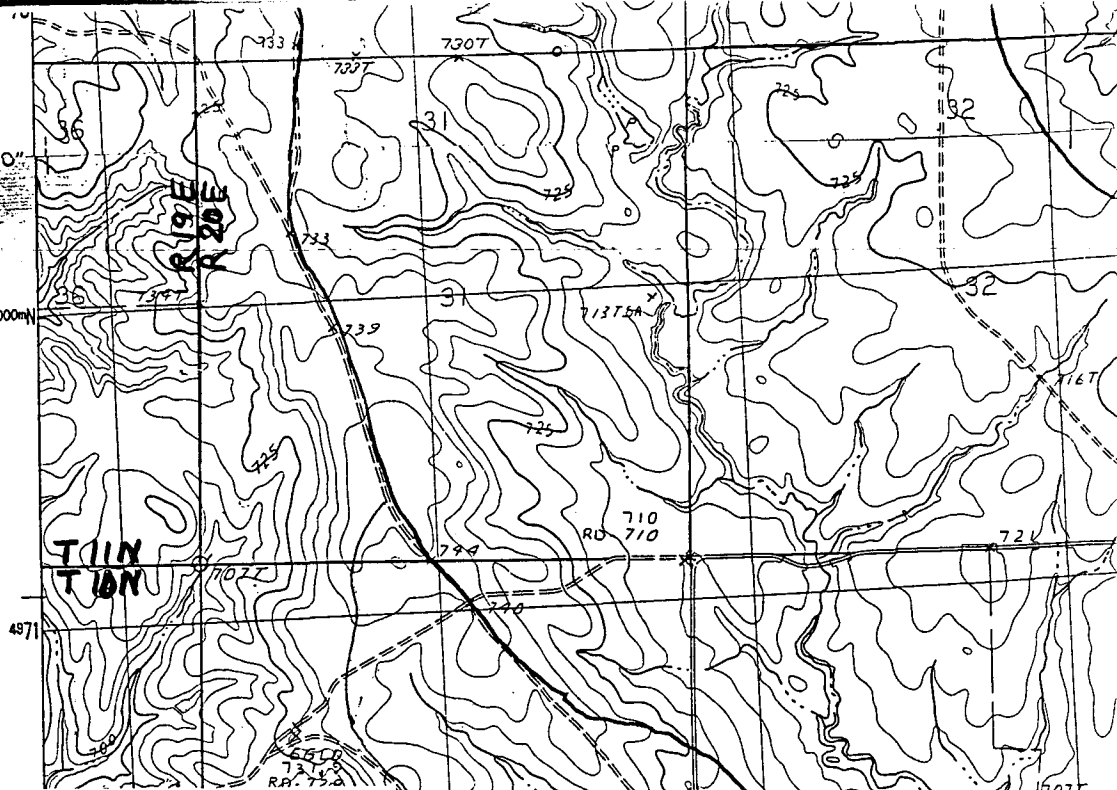
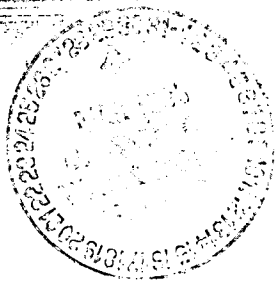
USDA, SOIL CONSERVATION SERVICE

A.O.

Assisting:

ZIEBACH

Conservation District



Ehrling Olson

<u>Elev</u>	<u>Stage</u>	<u>P.A</u>	<u>Storage</u>
684 ^M - 2244'	0	0	
S. - 2251 - 2256	13.3	7.1 ac.	41 ac-ft
S. - 2258 - 2255	14.3	7.7 ac	44 ac-ft
sp - 2261	19.3	12.0 ac	83 ac-ft

RnB - Regent-Rhoades - C/D

RdC - Reeder-Lantry B/B

$T = 14,000$

Slope - 5.5%



EFM-2 ESTIMATING RUNOFF AND PEAK DISCHARGE
Curve Number Computation

VERSION 1.10

Client : EHRLING OLSON

By: TVH

Date: 08-18-94

County : ZIEBACH

State: SD

Checked: _____

Date: _____

Practice: DAM

COVER DESCRIPTION	Hydrologic Soil Group			
	A	B	C	D
	Acres (CN)			

OTHER AGRICULTURAL LANDS

Pasture, grassland or range	good	-	350(61)	410(74)	140(80)
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Total Area (by Hydrologic Soil Group)	350	410	140
	=====	=====	=====

TOTAL DRAINAGE AREA: 900 Acres

WEIGHTED CURVE NUMBER: 70



EFM-2 ESTIMATING RUNOFF AND PEAK DISCHARGE

VERSION 1.10

Client : EHRLING OLSON

County : ZIEBACH

State: SD

By: TVH

Date: 08-18-94

Checked:

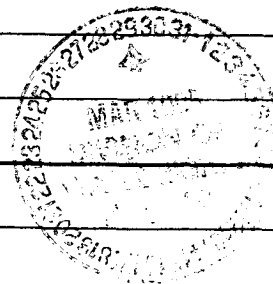
Date:

Practice: DAM

Drainage Area : 900 * Acres
Curve Number : 70 *
Watershed Length : 14000 Feet
Watershed Slope : 5.5 Percent
Time of Concentration: 2.49 Hours
Rainfall Type : II

Storm Number	1	2	3	4	5	6	7
Frequency (yrs)	1	2	5	10	25	50	100
24-Hr Rainfall (in)	1.7	2	2.8	3.4	3.8	4.4	4.8
Ia/P Ratio	0.50	0.43	0.31	0.25	0.23	0.19	0.18
Used	0.50	0.43	0.31	0.25	0.23	0.19	0.18
Runoff (in)	0.14	0.24	0.61	0.95	1.20	1.60	1.89
Unit Peak Discharge (cfs/acre/in)	0.156	0.191	0.245	0.260	0.267	0.275	0.279
Peak Discharge (cfs)	19	41	134	222	288	397	475

* - Value(s) provided by CN subroutine (F9)



PROJECT NAME: OLSON

TYPE OF WORK: FILL

RUN DATE: 06-29-1994

RUN BY: TVH

STATION	AREA	ECCENT.	DISTANCE	VOLUME	CUM. VOLS.
0+34	0.00	0.00			0.00
			16.00	2.04	
0+50	6.90	-1.64			2.04
			50.00	38.15	
1+00	34.30	-2.89			40.19
			25.00	60.10	
1+25	95.52	-3.92			100.29
			40.00	485.91	
1+65	560.46	-2.61			586.20
			30.00	755.30	
1+95	799.08	0.42			1341.50
			28.00	894.92	
2+23	926.83	3.87			2236.42
			45.00	1387.99	
2+68	738.76	7.19			3624.41
			26.00	662.53	
2+94	637.28	9.07			4286.95
			58.00	859.55	
3+52	163.00	3.62			5146.50
			50.00	213.42	
4+02	67.49	1.10			5359.92
			50.00	114.21	
4+52	55.86	1.30			5474.13
			58.00	99.23	
5+10	36.53	1.26			5573.36
			8.00	5.41	
5+18	0.00	0.00			5578.77

TOTAL VOLUME IS 5578.77 CUBIC YARDS

1.05 5% SETTLEMENT

5857.7 CY (FILL)

328 (CORE TRENCH)

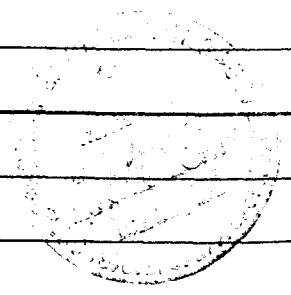
442 (STRIPPING)

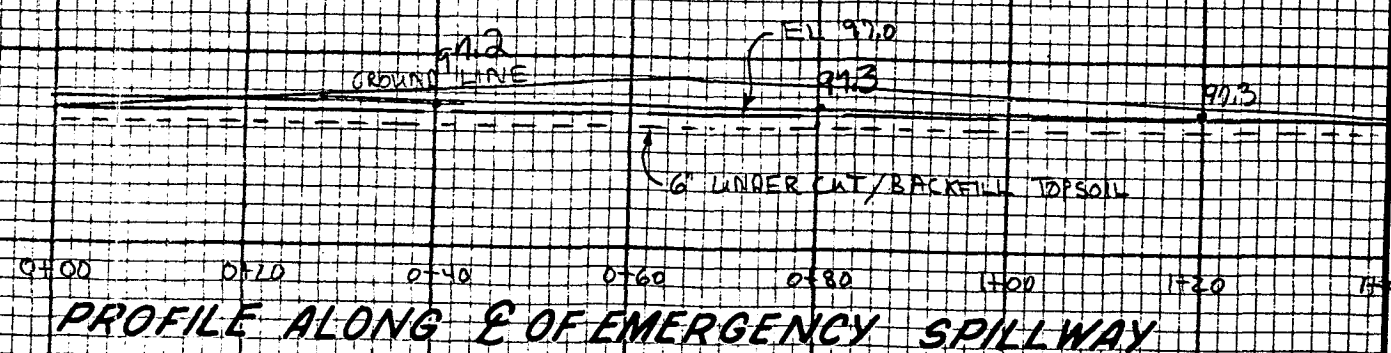
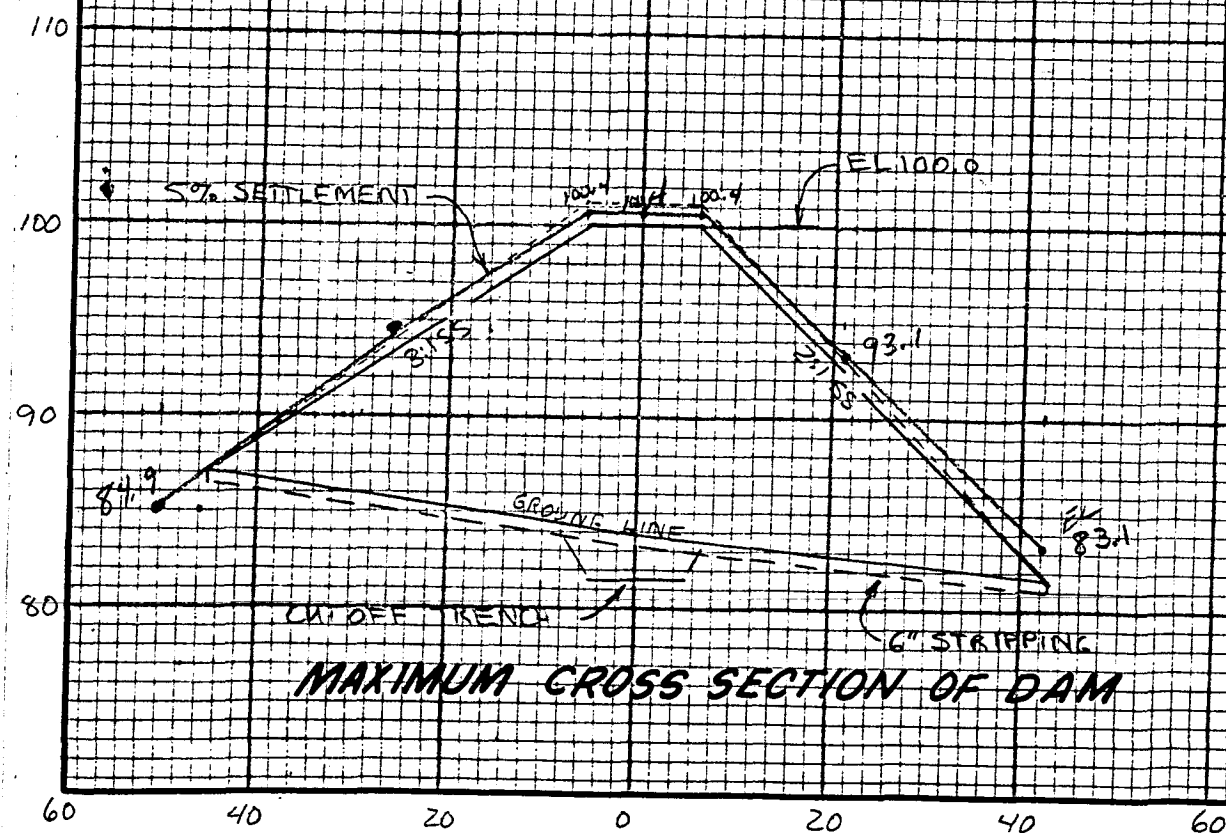
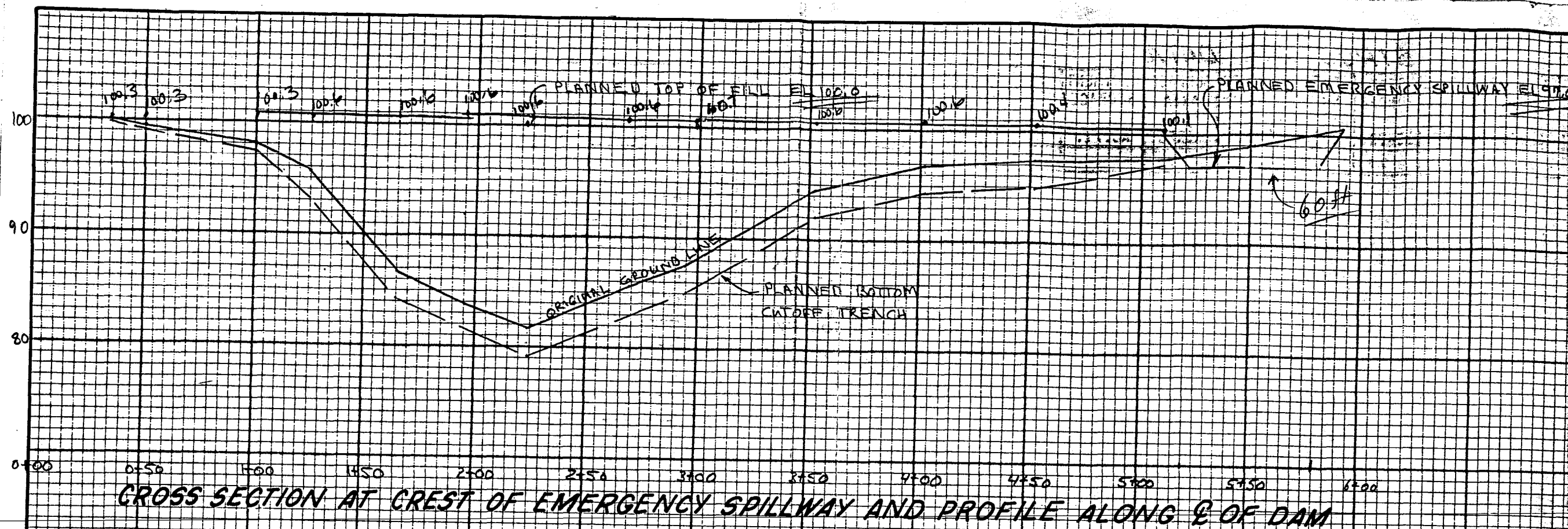
6628 CY TOTAL

168 cy top soil

6796 ~~5297.76~~

3048.88



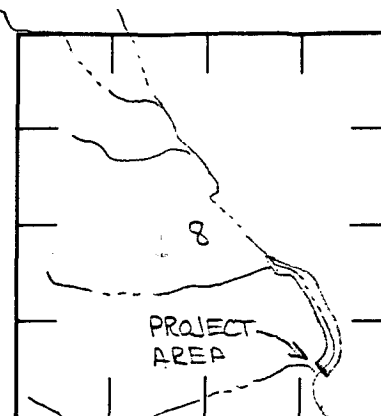


SEDIMENT YIELD

ERODIBILITY AREA ACRES	GROSS RATE A.F./AC./YR.	DRAINAGE AREA ACRES	DELIVERY RATE %	DESIGN PERIOD YEARS	REQ'D. SEDIMENT VOLUME AC.FT.
900	.001	900	15	25	3.4

Prepared
USDA, SO
Assistin
21E

DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF	EMERG. SPLWY. CAPACITY	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC.FT.	25-YR.	C.F.S.	FEET	ACRES	AC.FT.	AC.FT.
900	16.5	288	300	14.3	7.7	3.4	44



Sec. 8 T. 10N R. 20E.
ZIEGLER County

PROJECT AREA

Sec. 8 T. 10N

ZIEBACH CO

LOCAT

POOL AREA - 20 AC.

EMERGENCY SPILLWAY
EL 91.0
1+0

1+95

0+34

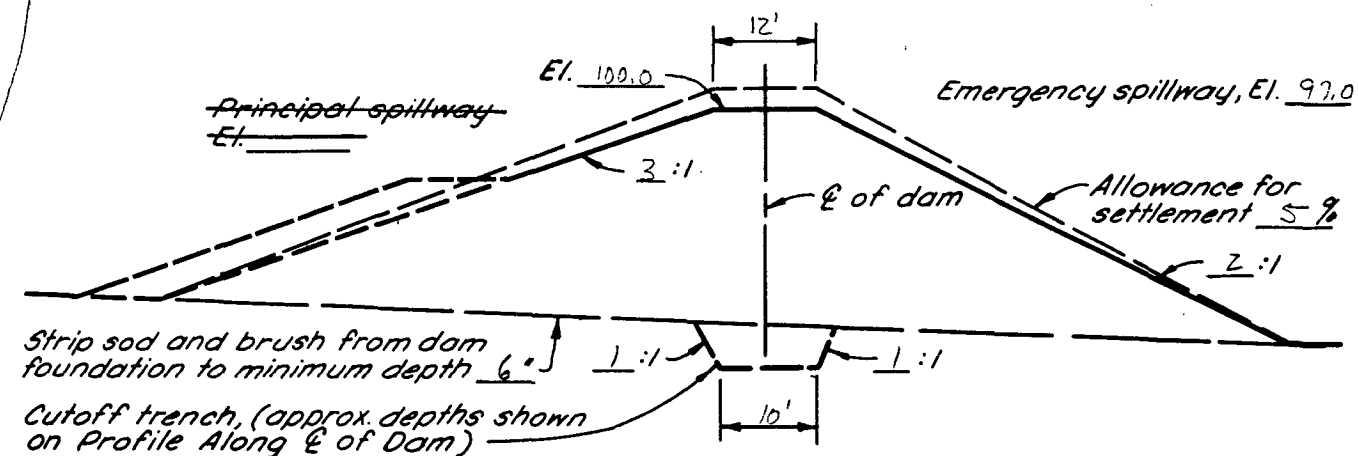
S.D.

SD

SD

SD

SD

[illegible]

S.D. CONSTRUCTION AND MATERIAL SPECIFICATIONS:

SD-4 STRIPPING
SD-25 EARTH FILL - CLASS 5
SD-10 SALVAGING & SPREADING TOPSOIL

OPERATOR: EHRLING OLSON
CONSERVATION DISTRICT: ZIEBACH

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

Date		Approved by. <i>Thom D. Van Fleet</i>	
Designed. <i>T. VERHELST</i>	<i>9/94</i>	Title. <i>Ag. Engineer</i>	
Drawn. <i>T. VERHELST</i>	<i>9/94</i>	Title	
Traced		Sheet	Drawing No.
Checked <i>M. M. Mourner</i>	<i>10/13/94</i>	No	

SKETCH PLAN OF DAM AND RESERVOIR AREA

Approximate scale 1" = 100

REFERENCE: GUIDE PLAN NO. 1.0

JOB PLAN NO. 1.0

REPORT ON
WATER PERMIT APPLICATION NO. 1619-1
ERLING OLSEN
April 7, 1995

Water Permit Application No. 1619-1 has been filed by Erling Olsen to impound 44 acre-feet of water in a dam. The dam is to be located in the SW 1/4 SE 1/4 of Section 8-T10N-R20E, in Ziebach County. The water will be used for livestock watering.

Discussion:

The Olsen Dam will be classified as a Category 3, Low Hazard dam. It has been designed by the Natural Resources Conservation Service (NRCS). The plans and specifications have been reviewed and approved; however, construction of the dam can not begin until Water Permit Application No. 1619-1 is approved.

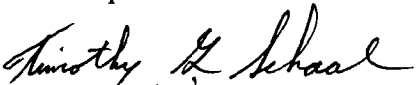
The dam will be 18 feet high with a normal storage capacity of 44 acre-feet with a reservoir level at the spillway elevation, and a maximum storage capacity of 83 acre-feet with a reservoir level at the top of dam elevation. A dam of this size and hazard classification is required to have a minimum spillway design capable of passing a 25 year frequency event.

The Olsen Dam is designed to have an 60 foot wide earthcut spillway with 3 feet of available head, giving the spillway the capacity to pass approximately 800 cfs. The Olsen Dam will have a drainage area of 1.4 square miles which produces a peak of 288 cfs for a 25 year frequency event. The annual yield for this drainage with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 16.5 acre-feet.

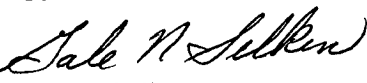
The Olsen Dam will be located on a tributary to the West Branch of Ash Creek and will be located approximately 14 miles upstream of the confluence of Ash Creek and Cherry Creek. There are no existing downstream Water Permits/Rights on Ash Creek.

Conclusions:

1. Water Permit Application No. 1619-1 should be approved since unappropriated water is available and approval will not have any adverse effects on existing Water Permits/Rights.
2. If approved, the low flow bypass requirement for downstream domestic use should be a qualification on Water Permit Application No. 1619-1.


Timothy G. Schaal, P.E.
Natural Resources Engineer III

Approved by:


Gale N. Selken, P.E.
Natural Resources Engineer IV

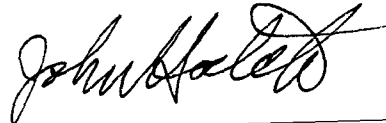
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1619-1, Erling Olsen**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 1619-1, Erling Olsen, PO Box 526, Dupree, SD 57623.

The Chief Engineer is recommending APPROVAL of Application No. 1619-1 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) in the public interest with the following qualifications:

1. Water Permit 1619-1 authorizes a dam with a storage capacity of 44 acre-feet of water annually.
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.



JOHN HATCH, Chief Engineer
April 20, 1995



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

April 24, 1995

Dennis Ellefson
Natural Resources Conservation Service
P.O. Box 246
Dupree, SD 57623-0246

Dear Mr. Ellefson:

We have reviewed the plans and specifications for the Erling Olsen Dam located in the SE 1/4 of Section 8-T10N-R20E in Ziebach County. The plans and specifications as submitted are approved. Approval of the plans and specifications does not authorize construction of the dam. Construction may not begin until Water Permit Application No. 1619-1 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 Mr. Olsen, 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 Olsen Dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 18 feet and a normal storage capacity of 44 acre-feet and a maximum storage capacity of 83 acre-feet.

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

Sincerely,

Gale N. Selken, P.E.
Natural Resources Engineer IV
for John Hatch, Chief Engineer
Water Rights Division
(605) 773-3352

c: Erling Olsen



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

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

April 24, 1995

Erling Olsen
PO Box 526
Dupree, SD 57623

Dear Mr. Olsen:

Water Permit Application No. 1619-1 for livestock watering use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the West River Progress printed at Gettysburg, SD (Ph # 605-365-5145). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application 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 Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

April 24, 1995

West River Progress
Box 190
Gettysburg, SD 57442-0190

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 1619-1 to be published twice. Please publish the first notice on May 4, 1995, with the second publication 7 days later.

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 Erling Olsen, PO Box 526, Dupree, SD 57623 (Ph # 605-365-5148).

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,


Eric Gronlund

Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

Instruction to Newspaper - Publish first Notice on May 4, 1995, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1619-1 to Appropriate Water

Notice is given that Erling Olsen, PO Box 526, Dupree, SD 57623 has filed an application for a water permit to impound 44 acre-feet of water from runoff by constructing a dam located in the SW 1/4 SE 1/4 Section 8 with water impounded in the E 1/2 SE 1/4 Section 8; all in T10N-R20E. The water is to be used for livestock watering purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1619-1 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 the 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 the 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 recommendation 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 Division, 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 May 22, 1995.

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 Division address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

SEP 5 1995

Erling Olsen
PO Box 526
Dupree, SD 57623

Dear Mr. Olsen:

Enclosed is Water Permit No. 1619-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

February 12, 1998

1619-1

Erling Olsen
P.O. Box 526
Dupree, SD 57636

Dear Mr. Olsen:

The investigation of your water use system was conducted on November 3, 1997, by Tim Schaal, staff engineer. The investigation included the extent of application of water to beneficial use, as developed under Water Permit No. 1619-1. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the investigation and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

**Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181**

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

REPORT ON INSPECTION OF PERMIT NO. 1619-1

Other permit(s) associated with the project: XXXX

DATE OF INSPECTION: November 3, 1997

NAME & ADDRESS OF INSPECTION CONTACT/ Erling Olsen

RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE: owner

NAME & ADDRESS OF PERMIT HOLDER: Erling Olsen, PO Box 526, Dupree, SD 57623

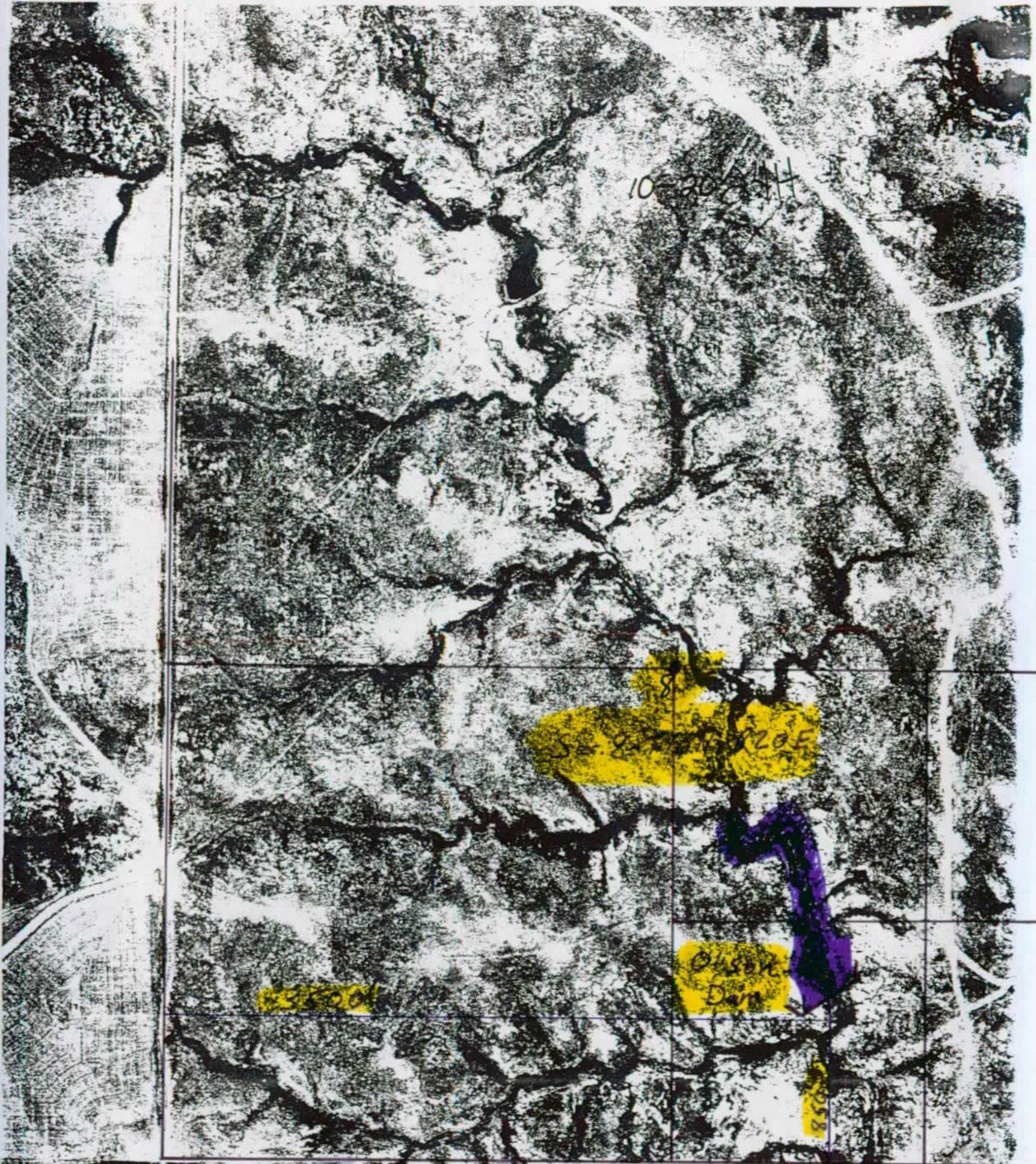
DIVERSION POINT LEGAL LOCATION: 850 feet north & 3500 feet east of the SW corner Section 8-T10N-R20E (SW ¼ SE ¼).

DAM INFORMATION:

- 1) Height to crest 18 feet
- 2) Height to primary spillway 15 feet
- 3) Height to secondary spillway N/A feet
- 4) Crest width 12 feet
- 5) Crest length 484 feet
- 6) Spillway length XXX feet
- 7) Spillway width 60 feet
- 8) Approx. storage (Normal) 44 acre-feet
- 9) Approx. storage (Maximum) 83 acre-feet
- 10) Date constructed: Fall 1995

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 No. 1619-1
Erling Olsen

Timothy G. Schaal

Timothy G. Schaal, P.E.
January 9, 1998

1619-1

STATE OF SOUTH DAKOTA

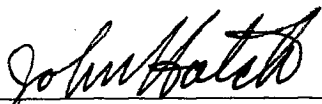
WATER LICENSE NO. 1619-1

(1) Erling Olsen, PO Box 526, Dupree SD 57636 made Application No. 1619-1, March 21, 1995 for a water permit to store 44 acre-feet of water annually from runoff, Ziebach County, South Dakota for livestock watering purposes. Permit No. 1619-1, with a priority date of March 21, 1995 was approved May 22, 1995 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 22, 2000 and for the application to beneficial use of said water on or before May 22, 2004.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to store 44 acre-feet of water annually for beneficial use. The location of the diversion point (spillway) is 850 feet north and 3,500 feet east of the southwest corner of Section 8-T10N-R20E (SW 1/4 SE 1/4).

(3) The applicant 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 Erling Olsen, PO Box 526, Dupree SD 57636 the holder and/or owner of Water Permit No. 1619-1 is issued a license to appropriate water, the right to store 44 acre-feet of water annually from runoff with a priority date of March 21, 1995 from the location specified in (2) of this license for livestock watering purposes. This license is subject to any limitations or qualifications listed in Water Permit No. 1619-1 and subject to South Dakota State Law.



JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 23 1998

date

