

Considered: 7-11-84

WATER PERMIT NO. 1877-2

MAP No. 1877-2

Name of Applicant Hart Ranch Development Co.

Post Office Address POB 6500, Rapid City 57709

Amount of Water Claimed 0.16 Total Acres

Source of Water Supply 2600' Madison Formation well

Water to be used for SHD & REC Campground County Pennington

About miles of

PROOF OF PUBLICATION: Received 6-14-84 Not Received

APPLICATION: Approved 7-11-84 Subject to

F.F. & C.L. Adopted Not Approved Deferred

PRIORITY Date Received 5/14/84 Fee 150.00 Remarks

5/14/84

Corrected Application Received Period of Annual Use 1/1 - 12/31

WATER QUALITY APPROVAL RECEIVED APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES NO REMARKS

n/a

Diversion Point

NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 19-T1S-R8E

Land to be Irrigated

Well Log: Driller Taylor Drilling Licensed YES X NO

Depth of Well 2600' REMARKS Madison Formation

Type of Map drawn PREPARED BY Reg Land Surveyor James P Heald Reviewed and the Number

assigned on 5/24/84 By Betty Westlund

cc Nelson

Mail to: Water Rights Div.
DWNR, Foss Bldg.
Pierre, SD 57501
(605) 773-3352

No. 1877-2 Hydrologic Unit 10120109
Map No. 1877-2 Basin UC
Newspaper _____

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

Check use of water: Industrial ☐ Commercial ☐ Municipal ☐ Other Common Distribution System ☒
Rural Water System ☐ Suburban Housing ☒ Geothermal Heat ☐ Institutional ☒
Domestic ☐ (above 18gpm) Other ☐

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐

☐ Amend Permit No. _____ with old priority date retained

Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____

☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____

☐ Construction to use water reserved by Future Use Permit No. _____ (605) 342-6616
(605) 343-5780

1. Name of Applicant HART RANCH DEVELOPMENT CO. Phone No. _____

Post Office Address P.O. BOX 6500, RAPID CITY State SD, 57709
(Street, RR or Box) Zip Code

2. Amount of water claimed (c.f.s.) 0.55 CFS (250 GPM) PEAK FLOW; 0.16 CFS (70 GPM) AVE.

DAILY FLOW (113 AF/YR)

3. Source of water supply MADISON FORMATION WELL

4. Location of point of diversion NW $\frac{1}{4}$ NW $\frac{1}{4}$ SEC. 19, T1S, R8E

County PENNINGTON

5. Counties where water will be used PENNINGTON

6. Annual period during which water is to be used HEAVIEST USE IN SUMMER; SOME YEAR-ROUND

7. Give a brief description of proposed 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)

SUPPLY WELL FOR A RECREATIONAL DEVELOPMENT WITH AN ULTIMATE POPULATION OF 1200 PERSONS. WELL FEEDS A 211,000 GALLON STORAGE RESERVOIR WITH A GRAVITY FLOW DISTRIBUTION SYSTEM.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
County of PENNINGTON)^{ss}

I, JAMES E ANDERSON the applicant, certify that I have read the foregoing application, have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed [Signature]

Subscribed and sworn to before me this 23 day of MAY 1984

[Signature]
Notary Public (or other qualified officer)

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 1877-2
Hart Ranch Development Co. Box 6500 Rapid City
(Applicant) (Post Office Address)
South Dakota 57709 With the following qualifications.
(State) (Zip Code)

1. The well approved under this permit shall be valved and the flow reduced to minimum when not being used. The well shall also be equipped with a pressure gauge and a record kept of any pressure fluctuations. Such records shall be available to the Chief Engineer, upon request. If this well is abandoned or the permit cancelled, the well must be plugged in accordance with specifications of the Water Management Board.
2. This Permit is approved for a total annual diversion of 120 acre feet. All water diverted from the well shall be metered and records kept and made available to the Chief Engineer upon request.
3. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

Date of first receipt of application May 14, 1984.
 Date of return to applicant for correction, amendments or changes required , 19 .
 Date of receipt of corrected application , 19 . Approved July 11, 1984.

The Water Management Board hereby approves this Water Permit No. 1877-2 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is May 14, 1984.
2. The equivalent of at least one-fifth of the specified work is to be completed on or before January 11, 1987.
3. The whole of said work is to be completed on or before July 11, 1989.
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is July 11, 1993.
5. The water appropriated shall be used for the purpose of Suburban Housing & Campground
& recreational use
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be unlawfully impaired by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 0.16 cubic feet per second; neither shall it exceed the capacity of the above described water supply system nor shall it exceed the amount of water needed for beneficial uses served and to which water is actually and beneficially applied for above uses on or before July 11, 1993; said water to be used during the following described annual period: year around

WATER MANAGEMENT BOARD
 By: John Hatch
Chief Engineer
 Division of Water Rights
 Dept. of Water and Natural Resources
July 24, 1984

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 8 3/4" TO 1200' Depth 6 1/4" TO 2310'
- b) Casing Type STEEL Diameter 7" TO 1200' Thickness 5 1/2" TO 2310' [7" 23#
5 1/2" 15 1/2#]
- c) Screen Type NONE Diameter _____ Thickness _____
- d) Gravel Pack Thickness NONE Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 2360'
- f) Depth of Water (ground surface to water level) 63' STATIC [MADISON FORM. @ 2360']
- g) Distance to nearest existing domestic well:
On applicants property 1/2 MILE On property owned by others 1 1/4 MILES

2. Dugout Information Estimates

- 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. The locations of each dam should 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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Outlet Dimensions:
Pipe diameter _____

Spillway width _____

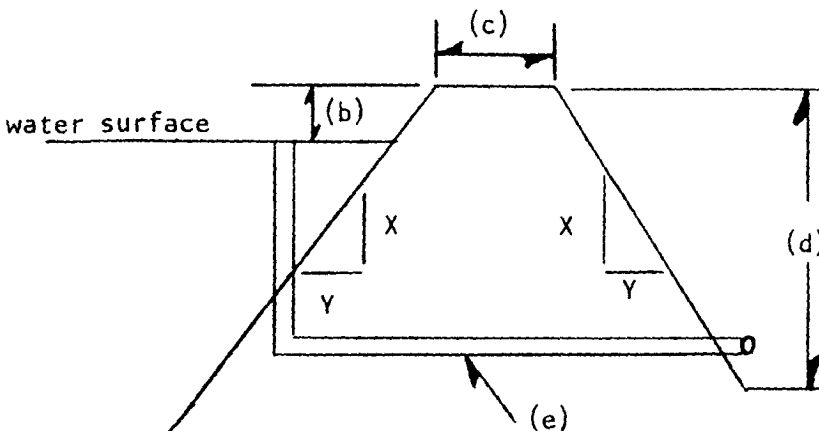
f) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant

Supplemental Information

(type or print in ink)

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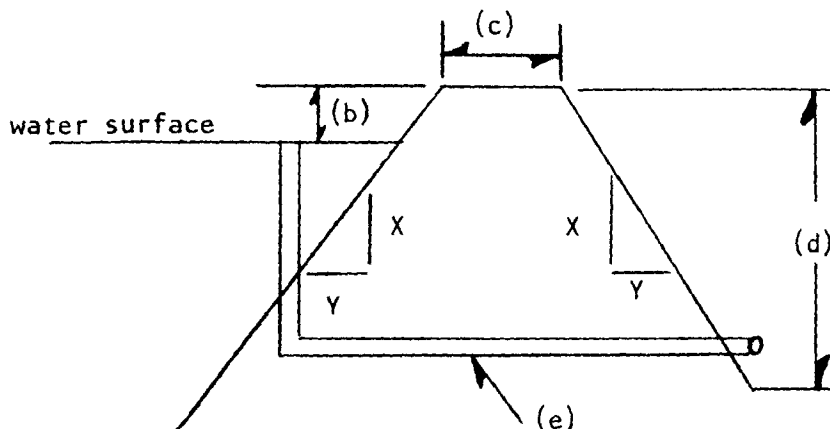
f) X & Y Slope
 Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



water surface

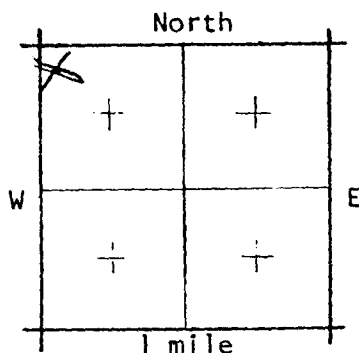
Signature of Applicant

STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location NW 1/4 NW 1/4 Sec 19 Twp 15 Rg 8 E

County Pennington

Please mark well location with an "X"



Well Completion Date 3-8-84

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☒ Industrial ☐ Stock

Method of Drilling:

Air Rotary

WELL CONSTRUCTION:

Diameter of hole 8 3/4 inches ^{+6 1/4} Depth 2600 feet

Casing: ☒ Steel ☐ Plastic ☐ Other
Specify _____

Pipe Weight 23 lb/ft Diameter 7 inches From 0 feet To 1126 feet
15 lb/ft 5 1/2 inches 1097 feet 2300 feet

Was a well screen used? ☐ Yes ☒ No

If Not Specify OPEN HOLE COMPLETION

Screen Type _____ Slot Size _____

Length _____ Diameter _____

Was Casing left open end? ☒ Yes ☐ No

Was a Packer or seal used? ☒ Yes ☐ No

If so what material? Cement

Was well gravel packed? ☐ Yes ☒ No

Was well grouted? ☒ Yes ☐ No

Describe grouting procedure pressure grouted

from bottom to top on 7" ; bottom + top on 5 1/2"

To what depth? 1126 + 2300 Feet

What was grouting material? Cement

If cement, how many sacks? 250

Location of packer(s) and screen or perforated pipe _____

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No
If so how and with what material?

Well Owner:

Name Hart Ranch Development

Address P.O. Box 6500 Rapid City, SD 57709

Well Log:

Depth

Formation	From	To
<u>Skull Creek shale</u>	<u>0</u>	<u>165</u>
<u>Fall River - Lakota</u>	<u>165</u>	<u>440</u>
<u>Morrison - Unkpapa</u>	<u>440</u>	<u>880</u>
<u>Sundance</u>	<u>880</u>	<u>1210</u>
<u>Spearfish</u>	<u>1210</u>	<u>1605</u>
<u>Opache Minnekahta</u>	<u>1605</u>	<u>1655</u>
<u>Opache</u>	<u>1655</u>	<u>1785</u>
<u>Minnelusa</u>	<u>1785</u>	<u>2360</u>
<u>Madison</u>	<u>2360</u>	<u>2600</u>

STATIC WATER LEVEL 60 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers

If other; specify _____

Can well be completely shut off? ☐ Yes ☒ No

WELL TEST DATA:

☐ Pumped

☐ Bailed

☒ Other

Describe: Air developed

Pumping Level Below Land Surface

600 ft. After 8 Hrs. pumped 400 GPM

500 ft. After 2 Hrs. pumped 250 GPM

400 ft. After 2 Hrs. pumped 125 GPM

Remarks:

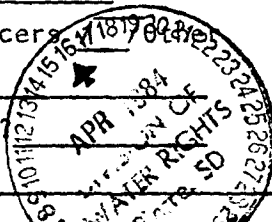
This well was drilled under license # 332
and this report is true and accurate.

Taylor Drilling
Drilling Firm

Rafael Taylor
Signed by

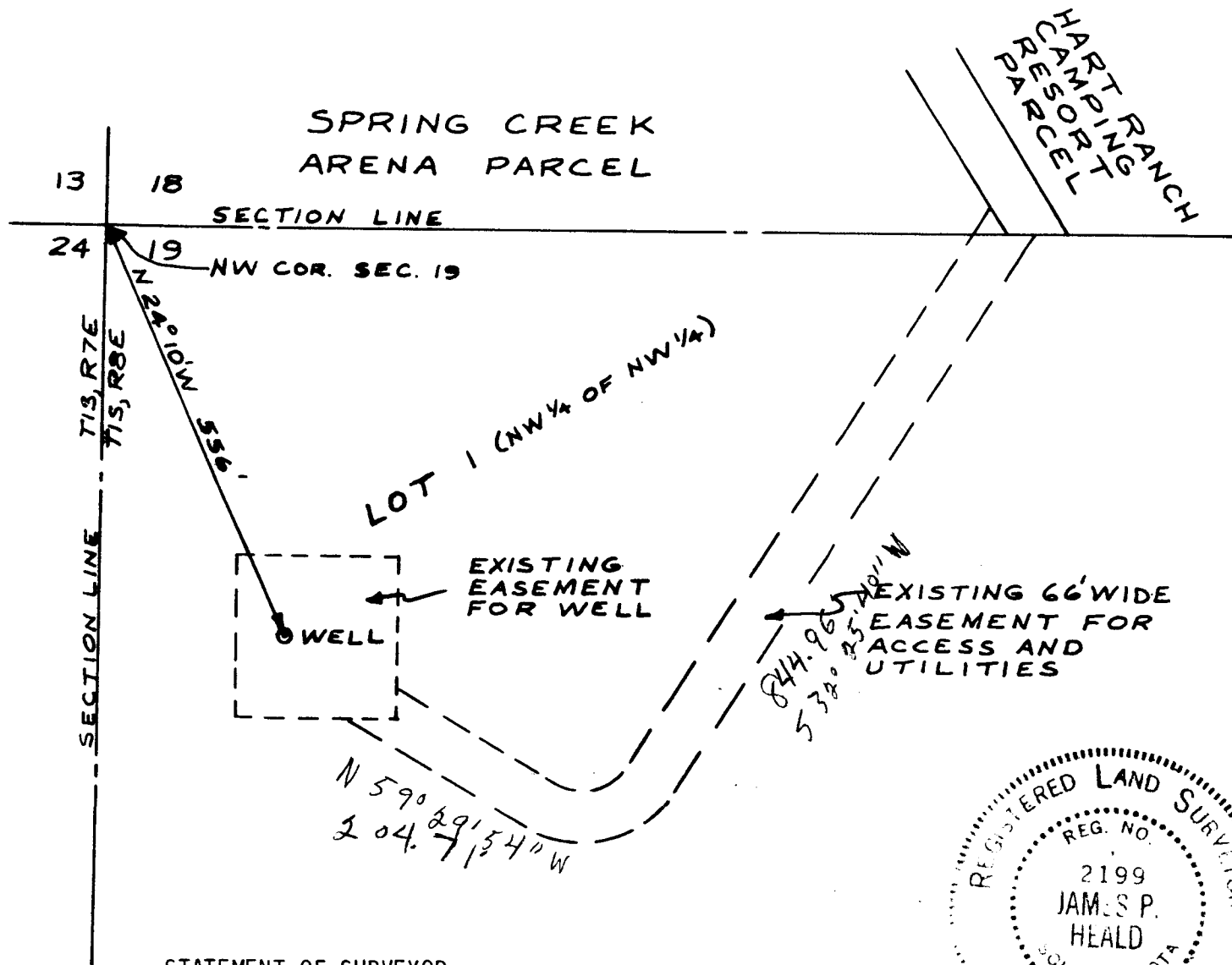
4-1-84
Date

it's sent



Water Right Map for
Well in Hart Ranch Development
located in Lot 1 (NW $\frac{1}{4}$ of NW $\frac{1}{4}$) of Section 19, T1S, R8E, 3HM,
Pennington County, South Dakota

SCALE 1"=200'
MAY 23, 1984



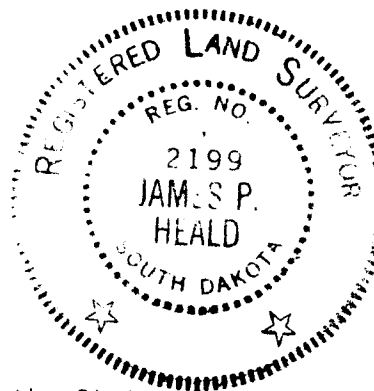
STATEMENT OF SURVEYOR
State of South Dakota
County of Pennington

S.S.

I, James P. Heald, Registered Land Surveyor No. 2199 of the State of South Dakota, do hereby state that being so authorized, the within map of the land shown and described hereon was made under my responsible direction and supervision and that to the best of my knowledge and belief the within map is correctly shown.

By James P. Heald
James P. Heald

Date May 23, 1984



HOSKINS · WESTERN · SONDEREGGER, INC.



1823 WEST MAIN
RAPID CITY, S.D. 57702
605 / 342-4105

Project: HART RANCH DEVELOPMENT

BY: JPH
5-23-84

LOCATION
19-1S-8E

JOB NO.
84/5179

A/M # 1877-2

RECEIPT

Division of Water Rights

No 4 9676 -

South Dakota Department of Water and Natural Resources

Pierre, May 31, 19 84

RECEIVED OF Hart Ranch Development Co. PO Box 6500, Rapid City, SD 57709

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

Fee for Application for Permit No. 1877-1 to Appropriate Water, to construct works 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 Certified Copy of		
Fee for Print Copy of Map		
Fee for Certifying		
Fee for		
(Any Other Work Provided by Law)	Total	150 00

By John Hatch
Chief Engineer JOHN HATCH (ms)

DESIGN MEMORANDUM

HART RANCH RESORT

PENNINGTON COUNTY

SOUTH DAKOTA

February 1984

Resort Development, Inc.

Planning, Design & Construction of Recreation Projects

February 10, 1984

Mr. Ray Birchem
Staff Engineer
South Dakota Department of Environmental Protection
Joe Foss Building
Pierre, South Dakota 57501

RE: Phase I - Water Supply and Sewage Treatment Facilities
Hart Ranch - Pennington County, South Dakota

Dear Mr. Birchem:

Enclosed please find two (2) copies of the Proposed Plans for the above referenced project as well as two copies of the Design Memorandum which includes a summary of design calculations for both the water and sewer systems. These are being submitted to you for your review and approval. Should you have any questions during your review please do not hesitate to contact us. We appreciate your cooperation.

Sincerely yours,

RESORT DEVELOPMENT, INC.



Thomas H. Patton, Jr.

THP:lwm

Enc.

cc Leon Kelzenberg
Larry Peterson

DESIGN MEMORANDUM - HART RANCH

INTRODUCTION

Hart Ranch Resort is being developed on a 13,058 acre ranch owned by Duininck Bros. & Gilchrist. The ranch is located approximately six miles south of Rapid City, South Dakota, in Pennington County. The resort complex is being developed in a small portion of the overall property. The terrain of the project area ranges from gently rolling valleys to steep hills. The elevation range of the project varies from approximately 3,360 to 4,000 feet above sea level.

DEVELOPMENT CONCEPT

As presently conceived the development will take place in two phases. The initial phase will involve the construction of the golf course as well as the construction of a 423 site RV park and horse arena. The horse arena will contain 100 stalls. The second phase of the project will involve the construction of a 200 unit condominium complex. The first phase of the project is currently underway and it is anticipated that the second phase of the project would be begun within a two to three year period.

SERVICE CONCEPT

Water and sewage services for the project will be developed in a phased basis. The accompanying plans are being submitted for Phase I development of the water and sewage facilities, with provision for Phase II expansion. The Phase I facilities will provide water service for the RV park and horse arena facilities. Water will be obtained from the Madison formation at a depth of approximately 2,000 to 2,100 feet. The well and water treatment and storage facilities will be located on a ridge approximately 150 feet above the valley in which the RV park and horse arena will be located. Water supply for Phase II will be similarly developed using a deep well with

treatment and storage facilities. At the time the Phase II system is developed it will probably be interconnected with the Phase I system so as to provide a backup for either system.

Sewage facilities are being similarly developed in a phase fashion. The first phase would serve the RV park and horse arena and would consist of stabilization ponds followed by on site irrigation. Upon construction of the condominium units the second phase of the sewage treatment facilities would involve the installation of an extended aeration treatment system with tertiary filtration which would be designed to handle both the Phase I and Phase II waste flows. At that time the Phase I stabilization ponds would be converted into irrigation holding ponds for the total system. There are over 150 acres of land available in the immediate area of the proposed waste treatment facilities to be used as irrigation sites. Since irrigation will be also utilized on the golf course there is the possibility that treated effluent would be utilized as a backup supply for that system.

DESIGN LOGIC

A. Water Supply

1. General -

Water supply for Phase I will include that needed for the RV park and horse arena. The system for the proposed condominium complex will be addressed in Phase II and will probably be interconnected with the RV park horse arena system using a separate or enlarged source.

2. Source -

Deep well to known aquifer (Madison formation approximately 2,000 to 2,100 feet) in the area. Anticipated delivery for Phase I at well head 250 GPM at 50 psig.

3. Treatment -
Chlorination only (0 - 10 mg/l dosage)
4. Storage -
Nominally 3 days average usage (summer) plus 2 hours fire flow at 500 GPM. [Equivalent to $1.25 \times \text{peak day} + \text{fire flow using peak day} = 2.4 \times \text{average day}$].
5. Location -
Locate well, chlorination and storage facilities at elevation sufficient to generate adequate system pressures by gravity from ground storage tank.
6. Line velocities/pressures -
 - a. Maximum line velocity at peak day [peak day/10 hour period] + fire flow = 8 feet per second.
 - b. Minimum line pressure at peak day. [over 10 hours] + fire flow = 20 psig residual.

B. Sewerage System

1. General -
Sewage treatment for Phase I will handle wastes from the RV park and horse arena. Waste flows from the proposed condominium complex, Phase II, which will flow through the common interceptor to the proposed plant site will be addressed in Phase II and will probably involve the construction of an extended aeration facility with tertiary filtration followed by spray irrigation.
2. Treatment Scheme Phase I -
Stabilization ponds with ultimate disposal by irrigation and as supplemental irrigation supply for golf course.

3. Location -

Facilities to be located so it will have gravity flow from the interceptor through the stabilization pond system to the irrigation storage pond.

C. Water and Waste Flows

Water usage and sewage flows from a modern recreational vehicle complex are considerably less than those normally anticipated from a domestic household. The basic reason for this is that these facilities are portable and must carry sufficient water to function for a several day period and therefore are constructed and manufactured using a rather intense water conservation concept. Resort Development, Inc. has through the years conducted several evaluations of recreational vehicle facilities which we have designed to develop a documented backlog of information regarding these usages. Attached hereto is a summary of water usage data from RV resorts. Two typical cases are shown. First, the Outdoor Resorts of America Complex at Lake Chemung, Michigan data are shown for the various months of the summer of 1977, showing the number of sites occupied, the daily flow in gallons per day, as well as the raw waste character. As can be seen from this data, the waste strengths are somewhat higher than normally associated with domestic sewage, a direct result of the water conservation concept. As indicated, the average use per occupied site was 69 gallons per day. Also shown on the summary is similar data for Outdoor Resorts of America's Gatlinburg, Tennessee facility which shows a usage of approximately 42 gallons per day per site. Based on this data and our experience throughout the country we are using a design rate of 70 gallons per day per RV site as an average flow for the RV park. Flows for the horse arena have been developed at 20 gallons per day per stall plus 20 gallons per day for an estimated average attendance of 20 people per day. Phase II flows from the

condominium units are anticipated to be in line with normal domestic flows of 100 gallons per capita day using 3.5 people per unit.

D. Seasonal Variation

Due to the extreme winters in the locale it is anticipated that the recreational vehicle park would be utilized essentially May through October. During the November through April period there would be essentially a zero occupancy of the sites and only maintenance activities would be occurring within the park. The horse arena would have a more or less uniform year round demand as would the condominium facilities. The golf club facilities, when constructed, would be utilized essentially during the May through October period with only maintenance flows occurring during the winter months. The attached table presents a summary of design water usage and sewage flows for each facility by season both in terms of average daily usage as well as maximum day, where maximum day was taken as 2.4 x average daily flow. This summary serves as the basis of design of both the water and sewerage facilities in Phase I and it is anticipated that they would similarly be used in the Phase II design steps.

E. Summary

Attached hereto is a schematic of the water and sewage systems proposed for the Phase I development as well as summary calculations for the water and sewerage systems. As can be seen from the attached, the facilities provided equal or exceed the requirements as calculated in the attached. These calculations were based upon the foregoing design logic as well as the guidelines set forth in the South Dakota Department of Environmental Protection's Criteria for Design of Wastewater Collection and Treatment Facilities.

SUMMARY
-WATER USAGE DATA-
-RV RESORTS-

A. Outdoor Resorts of America - Lake Chemung, Michigan

<u>Month</u>	<u>No Sites Occupied</u>	<u>Daily Flow-Gal</u>	<u>Raw Waste</u>	
			<u>BOD mg/l</u>	<u>SS mg/l</u>
June - 1977	210	18,500	320	293
July - 1977	244	15,000	275	362
Aug. - 1977	244	15,000	238	358
Sept.- 1977	-	13,000	270	-
J,J & A-Ave	233	16,167	278	338

∴ Average Use/Occupied Site = 69 Gal/Day

B. Outdoor Resorts of America - Gatlinburg, Tennessee

Total Sites - 376

Ave. occupancy - Summer 1977 = 90%

Ave. water usage = 41.8 Gal/Day/Site

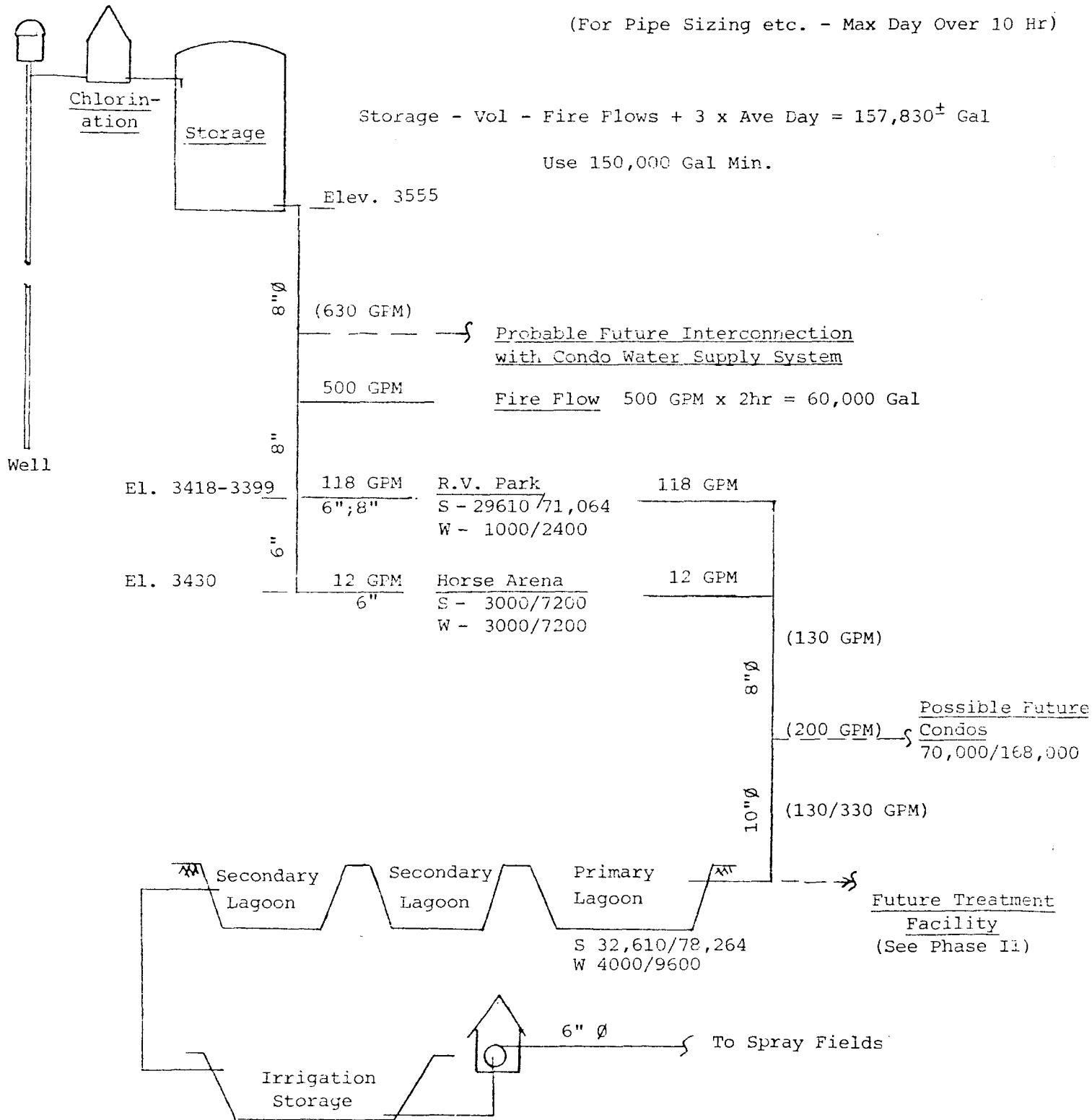
HART RANCH R.V. RESORT

Design Water Usage/Sewage Flows

<u>FACILITY/SEASON</u>		<u>FLOWS</u>	
1.	RV Park & Horse Arena	<u>Ave Day</u>	<u>Max Day</u> <u>(@2.4xAve)</u>
A.	Summer - (May through Oct)		
1.	RV Park - 424 Sites @ 70 GPD =	29,610	71,064
2.	Horse Arena - 20 per @ 20 GPD = 1000 Ave 100 stalls @ 20 = 2000 Ave	3,000	7,200
Totals		32,610	78,264
B.	Winter - (Nov through April)		
1.	RV Park - Zero occupancy - maintenancy only	1,000	2,400
2.	Horse Arena (See A2 above)	3,000	7,200
Totals		4,000	9,600
2.	Golf Club		
A.	Summer - 6 mo (May through October)		
	Ave - 12 per/hr x 10hr x 35 GPCD	4,200	-
	Max - 24 per/hr x 12hr x 35 GPCD		
Totals		4,200	10,080
B.	Winter - (Nov through April)		
	Zero usage - Main. Only - 3 per @ 35	105	252
Totals		105	252
3.	Condo Facilities		
	Year Round - 200 units x 3.5 PE/Unit x 100 GPD	70,000	168,000
Totals		70,000	168,000

WATER & SEWERAGE SYSTEM SCHEMATIC

(For Pipe Sizing etc. - Max Day Over 10 Hr)



HART RANCH

WATER SYSTEM - CALCULATIONS - PHASE 1A & 1B

1. Based on Daily Usage over a 10 hour period, Design Flows as follows:

	<u>Flow - Gallons/Min.</u>			
	<u>Fire</u>	<u>R.V. Park</u>	<u>Horse Arena</u>	<u>Total</u>
Max Day:	500	118	12	630

2. Line Lengths

- a) Storage to R.V. Park/Arena Junction - 2,800'
- b) From Junction to Arena - 400'
- c) From Junction to Most Distant Point in
R.V. Park - 1,600'

3. Calculate Minimum Residual Pressures at Control Points

Assume Storage Empty & Use C = 140

- a) R.V. Park/Arena Junction - Q = 630 GPM (0.907 MGD)

Line - 2800' - 8" Ø : Elev = 3418'

$$h_f = 6.65' / 1000' : v^2 / 2g = 0.26$$

$$\Delta H = 6.65 \times 2.8 = 18.6'$$

$$\therefore \text{Residual Pressure} = [(3555 - 3418) - 18.6 - 0.26]$$

$$= 118.14 \text{ feet} \div 2.31$$

$$= \underline{51 \text{ Psig}}$$

- b) Horse Arena - Q = 12 + 500 = 512 GPM (0.737 MGD)

Line - 400' - 6" E:EV = 3430'

$$h_f = 18.6' / 1000' : v^2 / 2g = 0.5$$

$$\Delta H = 18.6 \times 0.4 = 7.4'$$

$$\therefore \text{Residual Pressure} = 118' - [7.4' + 0.5'] = 110'$$

$$= 110' \div 2.31$$

$$= \underline{48 \text{ psi}}$$

c) Furthest Point in R.V. Park - $Q = 118+500=618$ GPM (0.89MGD)

Line - 1600' - 6"Ø Elev = 3399

$$h_f = 26.2'/1000' = v^2/2g = 0.73'$$

$$\Delta H = 26.2 \times 1.6 = 42'$$

$$\therefore \text{Residual Pressure} = 118' - [42+0.7] = 75'$$

$$= 75 \div 2.31$$

$$= \underline{32 \text{ psi}}$$

4. Summary - 8" line from supply to junction, 6" line from junction to arena and 6" min. line in R.V. Park will provide a minimum residual under fire flow conditions of well in excess of 20 psi at maximum day usage.

Hart Ranch Dev Co

WATER RIGHTS DIVISION
(605) 773-3352

May 17, 1984

Hart Ranch Development Company
PO Box 6500
Rapid City, South Dakota 57709

ATTENTION: James Anderson

Dear Sir:

Your application dated May 10, 1984 for a permit to appropriate water from groundwater was received May 14, 1984. The following information to further process your application will be required.

The map showing the location of the diversion point(s) is enclosed. State in rods/feet from the Section line the exact location of the well(s). Our suggestion is that you use aerial photos which can be obtained from the ASC office. Also your map shows two wells in Section 24 and the application states one well in Section 19.

The map must be signed by a licensed land surveyor or a South Dakota Registered Professional Engineer or by a governmental employee who prepares such maps as a regular part of his governmental employment.

Statutes require that we charge \$150.00 for 113 AFA.

A log of the well(s), signed by a South Dakota licensed well driller must be submitted with the application. For wells where it is not practical to drill test holes, an estimate of depth, proposed construction and formations to be encountered based on available geologic formation must accompany the application.

A report covering the contemplated use and a plat showing the hookups etc. with the amount of households to be served.

We are

We are enclosing additional forms and instructions for your convenience.

TO MAINTAIN YOUR PRIORITY DATE ON YOUR APPLICATION FOR PERMIT TO APPROPRIATE WATER, in accordance with SDCL 46-5-6, you will not have SIXTY DAYS from the date of this letter to correct your application and/or have the above information submitted to this office.

Sincerely,

Betty Westlund

Larry Peterson 343-5780
Dev Co. doing work



Snap
off

CARBONLESS
FORM 3801

NO

RADIO LETTER

TO JOHN HATCH / WATER RIGHTS



DEVELOPMENT COMPANY

Larry G. Peterson
Chief Engineer
Phone: (605) 343-5780

P.O. Box 6500 • Rapid City, SD 57709

SUBJECT

DATE

MESSAGE

CHECK FOR \$150⁰⁰ FEE FOR 113 A.F./YR
TO FOLLOW IN MAIL - CALL ME
IF THERE ARE FURTHER QUESTIONS.

SIGNED

Larry G. Peterson

DATE

REPLY

SIGNED

RECIPIENT: REPLY ON PINK COPY — RETAIN WHITE COPY

is 15.7 gpg hard. This water quality has been consistent over the past 10 yrs. Radiological sampling was completed 11/81 with no violation of standards. Inorganic analysis was last performed 3/84 with no violation of standards.

No information available on type of sewage disposal system and location with respect to well. 1 suspect septic tanks. Did try to telephone owner, no response (6-5-84).

Well #1 is an existing source.

HART RANCH DEV. CO.: 1877-2

A new development that will eventually, if all development is completed, will have both community and non-community FWS. This well, #1, serve the horse arena and the RV park and is a non-community FWS. There is no water quality information available, at this time, for this well. As a non-community FWS only quarterly bacteriological and a nitrate samples are required. The well is located approximately 1/2 mile southwest up-gradient with about a 300 ft. vertical rise from the multistage lagoon site.

P & S have been submitted and approved for both the water and wastewater system.

NORTHWEST S.D. PCA: 1311-1 (Prairie Hills Ranchettes)

This FWS serves approximately 30 people from any of 3 wells. What we call #1 & #2 have existing permits, but are apparently not being used due to low yields and poor quality. #3, for which this application has been submitted, is now the source of prime use. The common ion water quality from well #3 is excellent with the only aesthetic inconvenience being water that is 15 gpg hard. Radiological sampling was completed 4/81 with no violations of standards. Inorganic analysis was last performed 12/82 with no violation of standards.

Well #3 is located about 3/4 of a mile in a southeasterly direction and down gradient from the nearest septic tank facility.

Well #3 is an existing source for which P & S has been approved.

Kieth A. Eidam: 5001-3

An existing Inyan Kara well (drilled in '61) serves 5 homes and a campsite (# of pads unknown) as well as some farm yard and pasture taps.

Wells appears (from ariel maps) to be located several hundred feet from farm buildings and septic tanks.

Presumed to be no P & S as is a private well. The Campsite is a possible NOW. No water quality available.

C62802MS.DW

REPORT ON APPLICATION NO. 1877-2

HART RANCH DEVELOPMENT COMPANY

May 25, 1984

This application requests 0.55 cfs and a maximum of 113 acre feet per year from one 2600 feet deep well. The water is to be used for a suburban housing development, campground and horse arena. The location of the point of diversion is the NW 1/4 NW 1/4 Section 19, T1S, R8E BHM.

Aquifer - Madison Limestone

Geology and Aquifer Characteristics

The Madison is a Mississippian Age limestone typically cavernous especially in the upper part and is approximately 300 feet thick in this area (Gries, 1981). The aquifer is well known as an excellent source of good quality and quantity of water especially near the outcrop (recharge) area surrounding the Black Hills (Rahn, 1979).

The drillers log submitted with the application indicates two strings of casing were cemented in both from bottom to top. The well was finished open hole. Pumping data indicates the well produces less than 0.7 gpm/foot of drawdown. This is a low yield for the Madison, but is reasonable. The construction of the well is excellent.

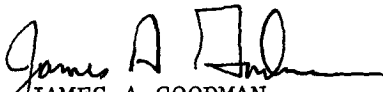
The aquifer is artesian at this location and the reported static water level is 60 feet below land surface. The Water Rights Division is proposing to drill observation wells in this area to monitor water levels.

Review of Existing Water Rights

The nearest existing Madison water permits are 6 miles or more west of this application. Domestic well data indicates most are producing water from the Inyan Kara or the Minnelusa.

Conclusions

1. Water is available from the Madison.
2. The specific capacity of this well is low, however it is reasonable. The average specific capacity for the Madison is 1.05 gpm/foot of drawdown (Rahn, 1979).
3. Water level data for the Madison is limited to one observation well in Rapid City (PE-65A).
4. There is a need for good water level observations and observation well construction is proposed for this area.


JAMES A GOODMAN
Hydrologist

Bibliography

Gries, J.P., 1981, Thickness of Madison Formation in SD, unpublished maps for Office of Drinking Water, DWNR, Pierre SD 57501.

Rahn, P.H., 1979, Ground Water Resources of Western SD, for U.S.A.C.E., SDSM & T Project S 2533, Rapid City SD 57701.

Water Rights, 1984, Permit Files and Observation Well Files, DWNR, Joe Foss Bldg. Pierre SD 57501

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT

APPLICATION NO. 1877-2, Hart Ranch Development Company

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 1877-2, Hart Ranch Development Company, PO Box 6500, Rapid City SD.

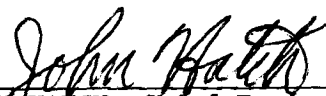
The Chief Engineer is recommending APPROVAL of Application No. 1877-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The well approved under this permit shall be valved and the flow reduced to minimum when not being used. The well shall also be equipped with a pressure guage and a record kept of any pressure fluctuations. Such records shall be available to the Chief Engineer, upon request. If this well is abandoned or the permit cancelled, the well must be plugged in accordance with specifications of the Water Management Board.

2. This Permit is approved for a total ^{annual} diversion of 120 acre feet. All water diverted from the well shall be metered and records kept and made available to the Chief Engineer upon request. *g H*

3. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
May 25, 1984



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

605 773-3352
Water Rights Division

May 25, 1984

Rapid City Journal
POB 450
Rapid City, South Dakota 57709

Dear Editor:

Enclosed is a Notice of Intent to Appropriate Water by Hart Ranch Development Co.
Application No. 1877-2, in Pennington County, South Dakota. Please
publish this notice once each week for two consecutive weeks in your paper. The first
publication should be on, or before June 4, 1984.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make
the first publication. The applicant is to pay the cost of publication and should
make the necessary arrangements with you to pay these costs.

Please receipt for this notice IMMEDIATELY after first publication attaching thereto
a copy of the first publication so that it may be compared with the records. For
your convenience, you may use the printed form below for this purpose.

After final publication please complete and mail to this office, the enclosed Form
8 to furnish Proof of Publication. The permit to appropriate water cannot be con-
sidered by the Water Management Board until proof of publication has been received.

Very truly yours,

Kevin C. Larson
Natural Resources Engineer

enclosures
KCL:ms
cc: applicant

NO. _____

Date _____

TO: Water Rights Division
Joe Foss Building
Pierre SD 57501

We are in receipt of your letter of _____, 19__ enclosing Notice of Proposed
Appropriation of Water, as proposed in Application No. _____ which was first
published in our issue of _____, 19__. ENCLOSED IS A COPY OF THIS FIRST
PUBLICATION.

NAME _____

NEWSPAPER _____

WP of ~~WR No.~~ 1877-2

Instruction to Newspaper - Publish first publication of the following Notice on or before June 4, 1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 1877-2 to Appropriate Water
and/or to Amend Water Permit or Water Rights No. _____

Notice is hereby given that Hart Ranch Development Co. whose mailing address is P.O. Box 500, Rapid City, South Dakota has made an application for a permit

to appropriate 0.55 cubic feet per second allowing a maximum annual diversion of 120 acre feet annually from groundwater, one well 2600 feet deep in the Madison formation. The point of diversion will be located in the NW¼NW¼, Section 19, T1S, R8E. The water will be used for Suburban Housing Development, Commercial Campground and Recreational use.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 1877-2 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Foss Building, Room 216, 523 E. Capitol, Pierre, South Dakota, July 11 19 84 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by June 29, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) ~~46-5-38 thru 46-5-40, (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15.02 thru 74:02:01:15.05.~~

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNr, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by June 29, 1984.

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County _____)

I, Mary K. Garness hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Rapid City Journal

A newspaper which during the whole time of publication of said notice herein after stated, has been and is printed and published in the _____
City Rapid City

County of Pennington and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

June 4, 1984

June 11, 1984

Mary K. Garrison
(Signature)

Bookkeeper
(Title)

June 11, 1984
(Date Signed)

Cost of Printing: Ran 8 4/16 inch legal advertising
in the Rapid City Journal on June 4 & 11 @
\$4.20 per inch = \$69.30

June 4, 11

LY83
DWNR 886-7/83
WP 1877-2

NOTICE OF HEARING
ON APPLICATION NO. 7877-2
TO APPROPRIATE WATER

Notice is hereby given that Hart Ranch Development Co. whose mailing address is P.O. Box 500, Rapid City, South Dakota has made an application for a permit to appropriate 0.55 cubic feet per second allowing a maximum annual diversion of 120 acre feet annually from groundwater, one well 2600 feet deep in the Madison formation. The point of diversion to be located in the NW¼NW¼, Section 19, T1S, R9E. The water will be used for Suburban Housing Development, Commercial Campground and Recreational use.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 1877-2 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Foss Building, Room 216, 523 E. Capitol, Pierre, South Dakota, July 11, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by June 29, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCI 46-1-1 thru 46-1-9, 46-1-11 thru 46-1-15; 46-2-1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30-2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNRR, Joe Foss Bldg., Pierre, S.D. (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by June 29, 1984.

July 11, 1984 ^MWB Minutes

1868-2, City of Wall SD

Application is to appropriate for future municipal use 1.00 cfs of water from the Fall River and/or Madison formation. Staff recommendation is for approval with the following qualifications:

1. That Future Use Permit No. 1868-2 is approved with the stipulation that the Permit to appropriate water is subject to review by the Water Management Board as to accomplishment thereunder upon expiration of seven years.
2. At such time as definite plans are made to construct works and put the water reserved by this permit to beneficial use, specific applications for all or any part of the reserved water must be submitted prior to construction of facilities pursuant to SDCL 46-5-38.1.
3. This permit is approved for groundwater from the Inyan Kara and/or Madison Formations.

1871-2, Vista Hills Water Assn., Rapid City SD

Application is for 0.09 cfs of water from one Minnelusa Formation well 230 feet deep for suburban housing use. Staff recommendation is for approval with the well interference qualification.

1874-2, Midwest Marine Contractor, Inc. NE, Prospect II

Application is for 0.06 cfs from one well 17 feet deep and 3000 gallons of storage for commercial use (placer mining). Staff recommendation is for approval.

1875-2, Dwight & Lyle Anderson, Clearfield SD

Application is for 0.17 cfs from one 205 foot deep existing well to irrigate 11.60 acres. Staff recommendation is for approval with the well interference qualification.

1876-2, Diamond T Mobile Home Park, Black Hawk, SD

Application is for 0.06 cfs of water from one existing Minnelusa Formation well 440 foot deep and one new Minnelusa Formation well approximately 440 feet deep for commercial use. Staff recommendation for approval with the well interference qualification and that the new well casing be pressure grouted with cement from the top of the Minnelusa Formation to the surface.

1877-2, Hart Ranch Development, Co., Rapid City SD

Application is for 0.55 cfs of water with a maximum annual diversion of 120 acre feet from one Madison Formation well 2600 feet deep for suburban housing development, commercial campground and recreational use. Staff recommendation is for approval with the artesian well and well interference qualifications and that this permit is approved for a total annual diversion of 120 acre feet. All water diverted from the well shall be metered and records kept and made available to the Chief Engineer upon request.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

1877-2

July 24, 1984

Hart Ranch Development Company
PO Box 6500
Rapid City, South Dakota 57709

Dear Sir:

Enclosed herewith is your Water Permit No. 1877-2 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 1877-2.

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 your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in dark ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ms

enclosure

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.

WNR-809-5/83



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 28, 2000

1877-2
1911-2

Hart Ranch Development Co.
%Elroy Santjer
23759 Arena Drive
Rapid City, SD 57702

Dear Mr. Sandjer:

On May 2, 2000, the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 1877-2 and 1911-2, was completed by Stacy J. Johnson, a staff engineer with our program. Your final water right documents, the water licenses, can now be issued.

State law requires that we charge a \$50.00 fee per license for the investigation and issuance of the water licenses (\$100.00 total). Upon receipt of the \$50.00 fee per license (\$100.00 total) from you, we will complete processing your water licenses. The check or money order for the fee should be made payable to the "Water Rights Program".

Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Cheryl Frost
Secretary
Water Rights Program

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

Nº 416580

Pierre, July 10, 2000

RECEIVED OF Hart Ranch, 23759 Arena Dr., Rapid City, SD 57702
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct
and to put water to beneficial use _____

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. 1877-2

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

By Harland E. Lyle
Chief Engineer

REPORT ON INSPECTION OF PERMIT NO. 1877-2

DATE OF INSPECTION: May 2, 2000

Other permit/license(s) associated with the project: 1911-2 (Suburban Housing Development (SHD) Distribution System, Irrigation of golf course, and Recreational)

Contact Person & Address: Elroy Santjer, 23759 Arena Drive, Rapid City, SD 57702

DIVERSION POINT LEGAL LOCATION: from the NW corner of section 19 T1S-R8E 531 feet south and 178 feet east

Longitude: -103.21780 **Latitude:** 43.9542310

WATER SUPPLY Source: Upper Cheyenne

Pump\ Motor:

- | | |
|---|--------------------------------------|
| 1) Pump Make <u>Haticsa submersible</u> | 2) Pump Model <u>unknown</u> |
| 3) Capacity GPM <u>250</u> | 4) Motor Make <u>Fairbanks Morse</u> |
| 5) Motor Model No. <u>C48B54B86</u> | 6) Horsepower rating <u>1</u> hp |

DISTRIBUTION LINES OR CANALS:

- 1) Type PVC 2) Size 4 inches 3) Length feet
- 1) Type PVC 2) Size 8 inches 3) Length feet

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Special qualifications to permit being abided by yes
- 2) All structures, wells and lands on map yes

COMMENTS:

Stacy J. Johnson
Stacy J. Johnson
Natural Resources Engineer
DENR, Water Rights Program

6-19-00
Date

Permit No. 1877-2
Upper Cheyenne- Water District

Report Of Examination Of Works

On, May 2, 2000, I made a thorough examination of the water use system constructed by Hart Ranch Development Co. of 23759 Arena Drive, Rapid City, SD 57702 holder of Permit No. 1877-2 bearing the priority of May 14, 1984, authorizing the diversion of 0.55 cu. ft. per second of the waters from one well (Madison Formation) 2600 feet deep located in the NW ¼ NW ¼ Section 19 T1S-R8E to supply water for suburban housing development, campground, and horse arena purposes, in Pennington County.

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

A. Works used to divert the water:

A 1 hp motor

B. Works used to apply water to beneficial use:

Suburban Housing Development (SHD) Distribution System, Campground, and horse arena

The system is in the following condition good. The point of diversion is located from the NW corner of section 19 T1S-R8E 531 feet south and 178 feet east longitude of -103.21780 and a latitude of 43.9542310. The works are capable of diverting and conveying to the place of use 0.55 cu. ft. per second of water and (120 acre-feet of water annually) that is to be used for Suburban Housing Development (SHD) Distribution System, Campground, and horse arena. Water has been put to beneficial use and the license should be issued for 0.55 cfs.

Applicable permit qualifications have been complied with: yes

Exceptions to compliance are: none

Stacy J. Johnson
Stacy J. Johnson
Natural Resources Engineer
DENR, Water Rights Program

6-26-00
Date

STATE OF SOUTH DAKOTA

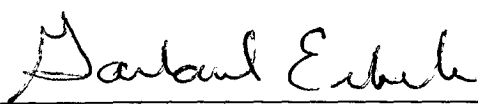
WATER LICENSE NO. 1877-2

(1) Hart Ranch Development Co., 23759 Arena Drive, Rapid City SD 57702 made Application No. 1877-2, May 14, 1984 for a water permit to divert 0.55 cubic feet of water per second (120 acre-feet annually) from groundwater (one well), Pennington County, South Dakota for suburban housing development, campground and recreational use purposes. Permit No. 1877-2, with a priority date of May 14, 1984 was approved July 11, 1984 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 11, 1989 and for the application to beneficial use of said water on or before July 11, 1993.

(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 water supply system and is entitled to divert 0.55 cubic feet of water per second (120 acre-feet annually) for beneficial use. The location of the diversion point is 531 feet south and 178 feet east from the northwest corner of Section 19-T1S-R8E (NW ¼ NW ¼).

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

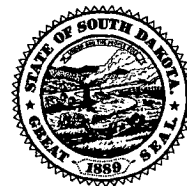
(4) Pursuant to South Dakota Water Law 46-5-30.1 Hart Ranch Development Co., 23759 Arena Drive, Rapid City SD 57702 the holder and/or owner of Water Right No. 1877-2 is issued a license to appropriate water, the right to use 0.55 cubic feet of water per second (120 acre-feet annually) from groundwater (one well) with a priority date of May 14, 1984 from the location specified in (2) of this license for suburban housing development, campground and recreational use purposes. This license is subject to any limitations or qualifications listed in Water Right No. 1877-2 and subject to South Dakota State Law.

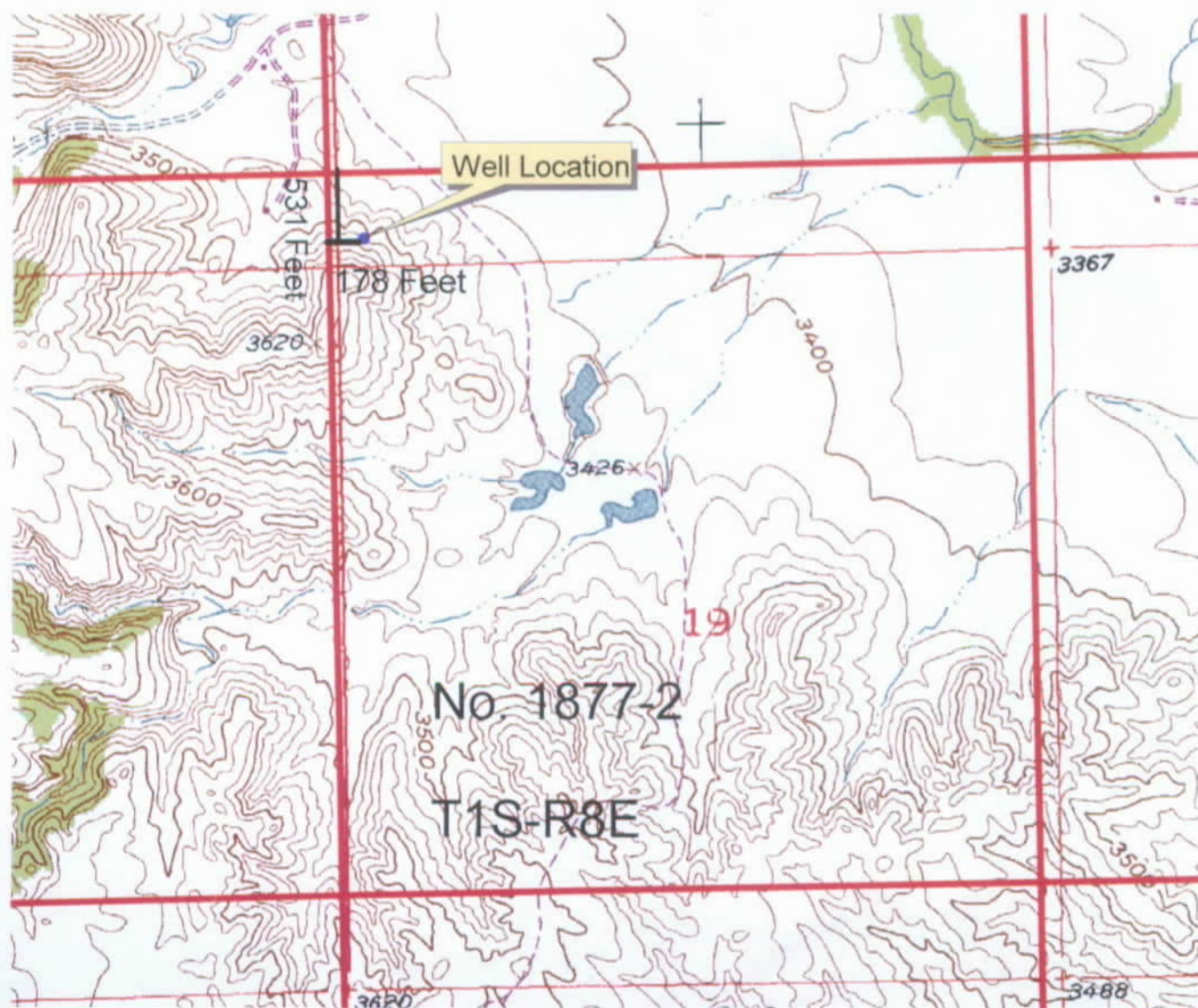


GARLAND ERBELE, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 02 2000

date





Stacy J Johnson 10-31-00

Stacy J Johnson
Natural Resources Engineer
SD DENR Water Rights Program

0.5 0 0.5 1 Miles





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 02 2000

1877-2

Hart Ranch Development Co.
%Elroy Santjer
23759 Arena Drive
Rapid City, SD 57702

Dear Mr. Santjer:

Enclosed is Water License No. 1877-2. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 416580 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 1877-2, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

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enclosures