

Considered: _____

WATER PERMIT NO. 2041-2

HAP No. Same

Name of Applicant U.S. Army Corps of Engineers - Omaha District

Post Office Address 215 N 17th Street, Omaha NE 68102

Amount of Water Claimed 0.34 cfs, 11 ac-ft annually Total Acres NA

Source of Water Supply ground water / well

Water to be used for REC & sanitary County Gregory

About _____ miles _____ of Ft. Randall Dam.

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received Oct 28, 1987 Fee 150⁰⁰ Remarks _____

Corrected Application Received _____ Period of Annual Use Jan 1 - Dec 31

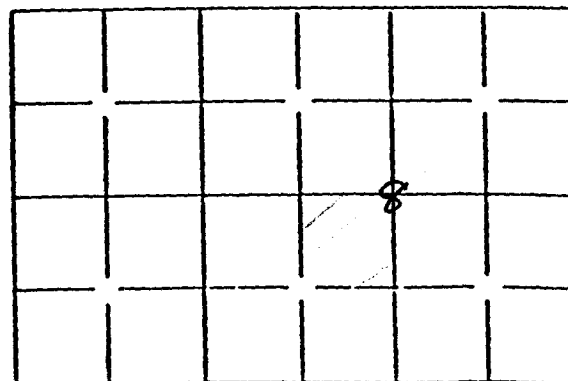
WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point well: NE $\frac{1}{4}$ SW $\frac{1}{4}$ section 8 -

T95N-R65W

Land to be Irrigated NA



Well Log: Driller US - COE Licensed YES _____ NO _____

Depth of Well 155 Feet REMARKS _____

Type of Map topo PREPARED BY Gary Sasse Reviewed and the Number

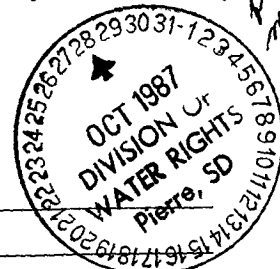
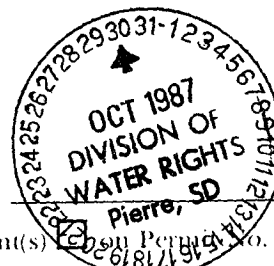
assigned on Oct. 28, 1987 By Ron Durrall

No. 2041-2 Hydrologic Unit 10170101
 Map No. same Basin Missouri River
 Newspaper Burke Gazette, Box 359 (Wed)

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 ☐ Recreational ☒
 Domestic ☐ (above 18gpm) Other ☒ Potable water for new Maintenance Facility

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☐ Amend Permit No. _____ with old priority date retainedChange diversion point(s) ☐ Add diversion point(s) ☐ Other ☐☐ Application to: Change diversion point(s) ☐ Add diversion point(s) _____☐ Construction to use water reserved by Future Use Permit No. _____1. Name of Applicant U.S. Army Corps of Engineers-Omaha District Phone No. _____Post Office Address 215 N. 17th Street, Omaha State Nebraska 68102
(Street, RR or Box) (City) (Zip Code)2. Amount of water claimed (c.f.s) 0.34 cfs (152gpm) 11 acre ft (annual volume)3. Source of water supply one groundwater well4. Location of point of diversion NE 1/4 SW 1/4, Sec 8, T95N, R65W_____ County Gregory Co, S.D.5. Counties where water will be used Gregory Co, S.D.6. Annual period during which water is to be used Jan 1 through Dec 31

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)

Water will be used to supply potable water for the existing Randall Creek Recreation Area (consisting of 5 Comfort and Fish Cleaning facility) as well as the new Maintenance Facility that will be located at the toe of the Ft. Randall Dam. The well will be located downstream of the dam in unconsolidated alluvium. Water withdrawn for the Recreation Area will be seasonal, however water used for the Maintenance Facility will be year-round. Existing wells (5) used for the Recreation Area will no longer be used as a potable water source.

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 _____)

I, Daniel E. Hokens 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

Daniel E. Hokens

Subscribed and sworn to before me this

28th

day of

October19 87Linda F. Burke
Notary Public

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 15" Depth 155'
- b) Casing Type Black Steel Diameter 8" I.D. Thickness 0.277 inch
(wire wrapped,
- c) Screen Type 304 Stainless Steel Diameter 8" I.D. Thickness No. 60 slot
- d) Gravel Pack Thickness 3 inches Length of Gravel Pack 30 feet
- e) Depth to Top of Water Bearing Material 70 feet
- f) Depth to Water (ground surface to water level) 48 feet
- g) Distance to nearest existing domestic well:
- On applicants property 2500' On property owned by others Unknown

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) Primary Outlet Capacity _____

If Pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway width _____

g) X & Y Slope

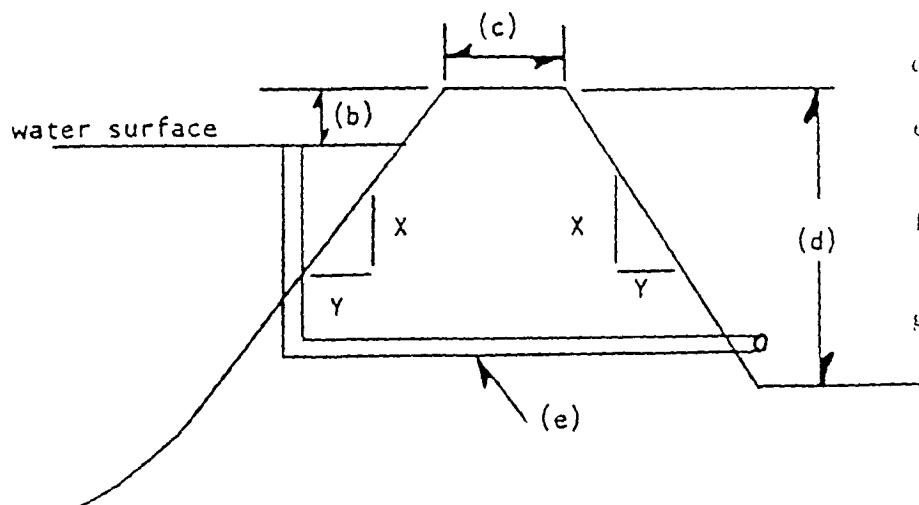
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 2041-2

U.S Army Corps of Engineers, Omaha District 215 N. 17th Street
(Applicant) (Street, RR or Box)
Omaha NE 68102 With the following qualifications.
(City) (State) (Zip Code)

The well constructed pursuant to this permit shall be constructed by a licensed well driller and comply with Water Management Board Well Construction Rules, Chapter 74:02:04.

Date of first receipt of application October 28, 1987.

Date of return to applicant for correction, amendments or changes required _____, 19____.

Date of receipt of corrected application _____, 19____. Approved March 2, 1988.

The Water Management Board approved this Water Permit No. 2041-2 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 October 28, 1987.
2. The equivalent of at least one-fifth of the specified work is to be completed on or before September 2, 1990.
3. The whole of said work is to be completed on or before March 2, 1993.
4. The limit of time for proof of beneficial use of water appropriated in accordance herewith is March 2, 1997.
5. The water appropriated shall be used for the purpose of recreation use by the Randall Creek Recreation Area and sanitary use by the maintenance facility
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 granted shall not exceed 11 acre - feet annually 0.34 cubic feet per second; neither shall it exceed the amount of water needed for the beneficial uses served and to which water is actually and beneficially applied for recreation and sanitary use on or before March 2, 1997. The water is to be used during the following described annual period: Jan 1 - Dec 31

WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer

Division of Water Rights
 Dept. of Water and Natural Resources

APR 28 1988

_____, 19____

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411029

Pierre, October 28, 1987

RECEIVED OF US Army Corps of Engineers-Omaha Dist. 215 N 17th St., Omaha, NE 68102
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ 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)

DRILLING LOG		DIVISION	INSTALLATION		Hole No.	SHEET 1 OF 12 SHEETS
1. PROJECT FT. RANDALL MAINT SHOP TEST WELL		MRD	OMAHA		10. SIZE AND TYPE OF BIT 10 5/8" roller rock	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		12. MANUFACTURER'S DESIGNATION OF DRILL Fauling 1500		
3. DRILLING AGENCY US-CE		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES		
4. HOLE NO. (As shown on drawing title and file number) TW-1		15. ELEVATION GROUND WATER		16. DATE HOLE STARTED 5 May 87 COMPLETED 12 May 87		
5. NAME OF DRILLER G. FROM		17. ELEVATION TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING		
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		19. SIGNATURE OF INSPECTOR Will D. Brown Jr.		19. SIGNATURE OF INSPECTOR		
7. THICKNESS OF OVERBURDEN 152.8' +		19. SIGNATURE OF INSPECTOR		19. SIGNATURE OF INSPECTOR		
8. DEPTH DRILLED INTO ROCK		19. SIGNATURE OF INSPECTOR		19. SIGNATURE OF INSPECTOR		
9. TOTAL DEPTH OF HOLE 152.8'		19. SIGNATURE OF INSPECTOR		19. SIGNATURE OF INSPECTOR		

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0.0		Chalk Fill			Began drilling w/ 10 5/8" roller rock bit.
	1.0		Nebraska Chalk argillaceous soft dense slightly to moderately weathered non-swelling slow to non-staking			Two mud pits dug: 6' x 7' x 3.5' (~1100 gal) 5.5' x 9' x 4' (~1500 gal)
	2.0					Mixed 120 lbs Revert in ~1800 gallons H ₂ O
	3.0					
	4.0					
	5.0					
	6.0					
	7.0					
	8.0					Lost circulation at ~9'. Continuously adding water.
	9.0					
	10.0					

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. TW-1		
PROJECT H. Randall Maint Shop Test Well		INSTALLATION ONAHIA		SHEET 2 OF 12 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10.0		Chalk Fill			Continued w/ 10 5/8" roller rock bit.
	11.0		Nebraska Chalk argillaceous soft dense slightly to moderately weathered non-squeezing slow slaking to non-slaking			No circulation.
	12.0					
	13.0					Pumped both mud pits dry drilling to 16.3'. ~1800 gallons of drill fluid pumped into hole.
	14.0					
	15.0					
	16.0					End shift 5/5/87
	17.0					Begin shift 5/6/87
	18.0		Material consistent; based on drill action			No fluid return. Drilling with clear water
	19.0					
	20.0					
	21.0					
	22.0					

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. TW-1		
PROJECT H. Randall Maint Shop Test Well		INSTALLATION OMAHA		SHEET 3 OF 12 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
22.0			Chalk Fill			No fluid return
23.0			Mishmash of soft clay slightly to moderately weathered.			continued w/ 10 5/8" rods and bit
24.0			non-squeezing non-sticking to slow sinking when solvent used.			Pumped all available water into hole while drilling to ~25'. ~1800 gallons pumped into hole drilling from 16' to 25'
25.0						Drilling of clear water.
26.0						
27.0						
28.0			Gravel and sand mixed with fill below 27'.			Hard drilling between ~27' and 31'. Good deal of chatter.
29.0						Beginning of dredges fill(?) at 27'
30.0						
31.0						Chatter continued intermittently down to ~36'.
32.0						Drilling blind; no fluid return.
33.0						
34.0						

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. TW-1		
PROJECT H. Randall Maint. Shop Test Well		INSTALLATION ONASHA		SHEET 4 OF 12 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
34.0			Chalk and Shale Fossils			Continued w/ 10 5/8" roller rock bit
35.0			Nodular Chalk very irregular soft dense slightly to moderately weathered 1st drilling 2nd - making it very strong sticking when submerged.			No fluid return. Dredged fill; used a fill in river channel. (?)
36.0						
37.0						Chatter stopped ~37' to 38'
38.0			1st - making firm ~37' to 38' same intermittent firm to 36'. (Chalk and shale) firm and dense.			Drilling easier below 38'.
39.0						Pumped ~1800 gallons of clear water into hole drilling from 25' to 41'.
40.0						Water level @ 35.6' w/ hole @ 41.5'
41.0						
42.0				41.5		Pushed 3" split spoon sampler from 41.5' to 43.9'.
43.0				P U S H		Recovered 1.5'
44.0				D-1 43.5- 43.9		Material firm; not slough from drilling.
45.0						
46.0				43.9		Encountered firmer material @ 44.7' Harder drilling

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. TW-1		
PROJECT Ft. Randall Mount Shop Test Well		INSTALLATION OMALIA		SHEET 5 OF 12 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	46.0		Chalk and Shale Fill			Continued w/ 10 5/8" roller rock bit.
	47.0		Niobrara Chalk Very argill. some finely, granular soft			No fluid return; using clear water.
	48.0		dense slightly to moderately weathered.			Used ~1300 galls. water drilling from 41.5' to 49.7'.
	49.0		non-swelling non-slaking to slowly slaking			Drilled through hard zone at 48.7' (drilled out of zone). Easier drilling below 48.7'.
	50.0		gravel rounded, fine and coarse sand fine to coarse; rounded.			Added 12 lbs Revert to ~1000 gallons H ₂ O before continuing drilling below 49.7'.
	51.0					
	52.0					Drilled to ~55' before mixing more Revert in with drill water. see page 6.
	53.0					
	54.0					
	55.0					
	56.0					
	57.0					
	58.0					

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. TW-1	
PROJECT H. Randall Maint Shop Test Well			INSTALLATION OMAHA		SHEET 6 OF 12 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	58.0		Chalk & Shale Fill			Continued w/ 10 5/8" roller rock bit
	59.0		Niobrara Chalk very argillaceous sandy, gravelly soft			No fluid return; using Revert drill fluid.
	60.0		dense moderately weathered non-swelling			Added 12 lbs Revert to ~1000 gallons water to drill from ~55' to 61.9'.
	61.0		non-slaking to slowly slaking.			Total ~1800 gallons of water/drill fluid used drilling from 49.7' to 61.9'.
	62.0		gravel rounded, fine & coarse sand rounded fine to coarse			Mixed 12 lbs Revert in ~1000 gal H ₂ O 45 sec/gal.
	63.0					More filling w/ cuttings Had to drill 100s down to 61.9' using Revert mix. Unable to take a sample because there are too many cuttings in the hole. (~10 feet).
	64.0					Water level @ 29.9' hole depth @ 61.9'
	65.0					Increased down pressure; drilled to 72.1' with ~1000 gal. (from 61.9')
	66.0					9.5' to 10' of cuttings in hole.
	67.0					Contact w/ silty sand at 70' approximate. Based on elevations of top of hole and river channel. Unable to locate contact by drilling changes.
	68.0					
	69.0					
	70.0					

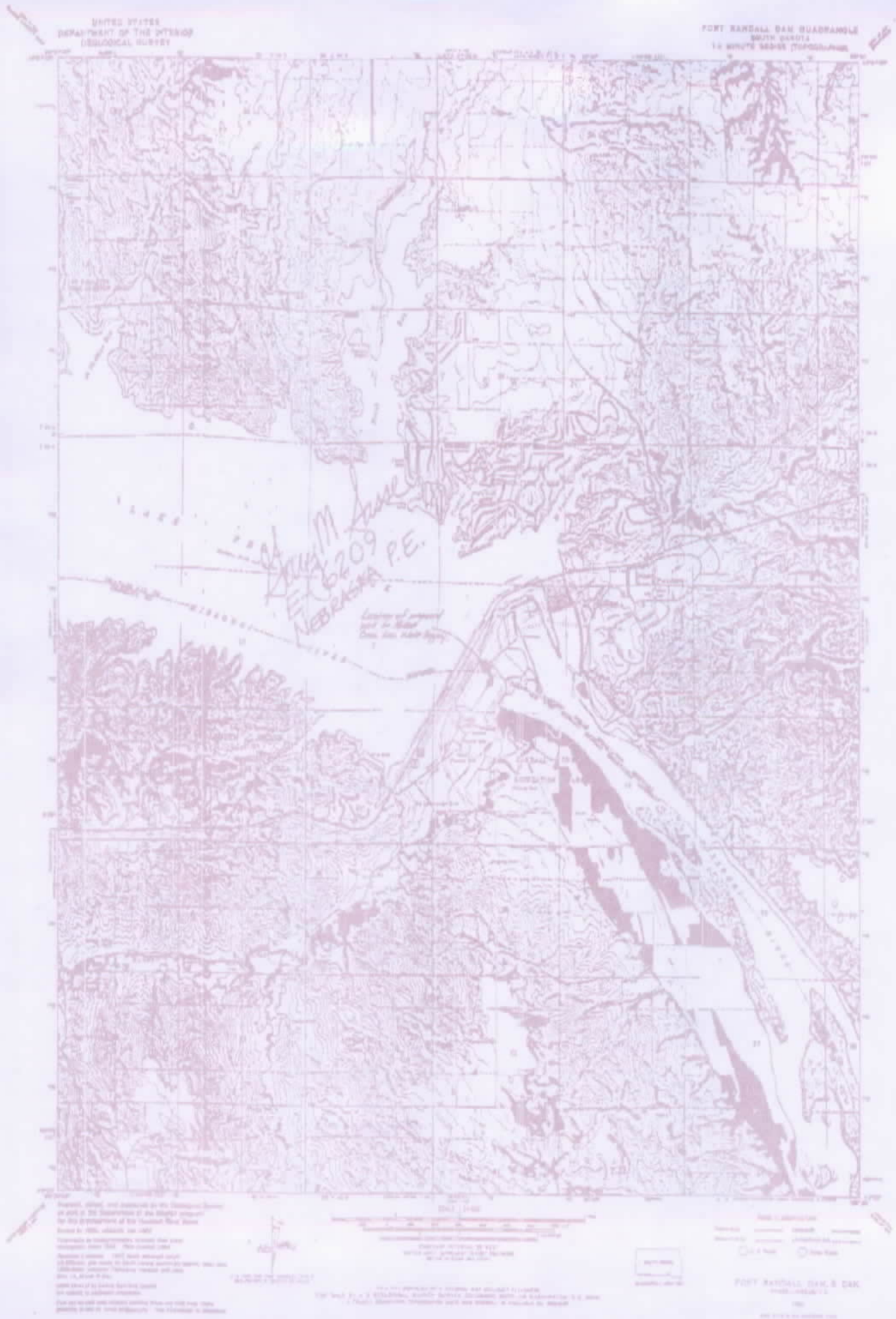
DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. TW-1	
PROJECT Ft. Randall Main Ship Test Well			INSTALLATION OMAHA		SHEET 7 OF 12 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70.0		SILTY SAND (SM) loose to med. dense no to low plast. saturated gray to brown gray sand fine to coarse w/ some gravel			Continued w/ 10 5/8" roller rock bit. No fluid return; using Revert drill fluid.
	71.0					Drilled to 72.1': 9.5' to 10' of cutting settled back into hole
	72.0		~ 10-15% gravel, rounded v. silty; ~ 20-25% silt some chalk present			Attempted sample at 72.1'. Rods and sampler went down to 69.6'. Turned pump on to wash sampler. Lump and sampler fell from 69.6' to 79.5' under weight of rods and kelly. Flashed sampler to 80.2'. No recovery.
	73.0					
	74.0					
	75.0					
	76.0					
	77.0					
	78.0					
	79.0					
	80.0					Hole taped to 81.8'. at completion of drilling.
	81.0					
	82.0					

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. TW-1	
PROJECT Ft. Randall Maint. Shop Test Well			INSTALLATION OMALS		SHEET 8 OF 12 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	82.0		SILTY SAND (SM) 100% - med. dense no plast. to v. slight saturated gray to brown gray fines fine to coarse; some gravel, fine; coarse ~10-15% gravel; 20-25% silt	82.2 P U S H 83.5	D-2 82.7- 83.2	Continued drilling w/ 10 5/8" rock bit Pushed 3" split spoon sampler from 82.2' to 83.5' Rec. 1.0' Bottom of hole @ 83.5' 6 May 87 Installed 6" ID steel screen and casing to a depth of 80.0'. Wtr. level in hole @ 35.4' after installation of screen. Chlorinated well w/ 2 gallons of Clorox, poured into drill rod and placed under pressure in hole at various depths. Also added 5 lbs. Calcium hypochlorite (granular) poured in from top of hole. Allowed to set overnight. Continued hole on 11 May 87 w/ 12" rock bit. Reamed hole and continued drilling below 83.5'. Used clear water to ream hole. At 82.4' began mixing Revert. Using ~12 lbs per 1000 gallons of water.
	83.0					
	84.0					
	85.0					
	86.0					
	87.0					
	88.0					
	89.0					
	90.0					
	91.0					
	92.0					
	93.0					
	94.0					

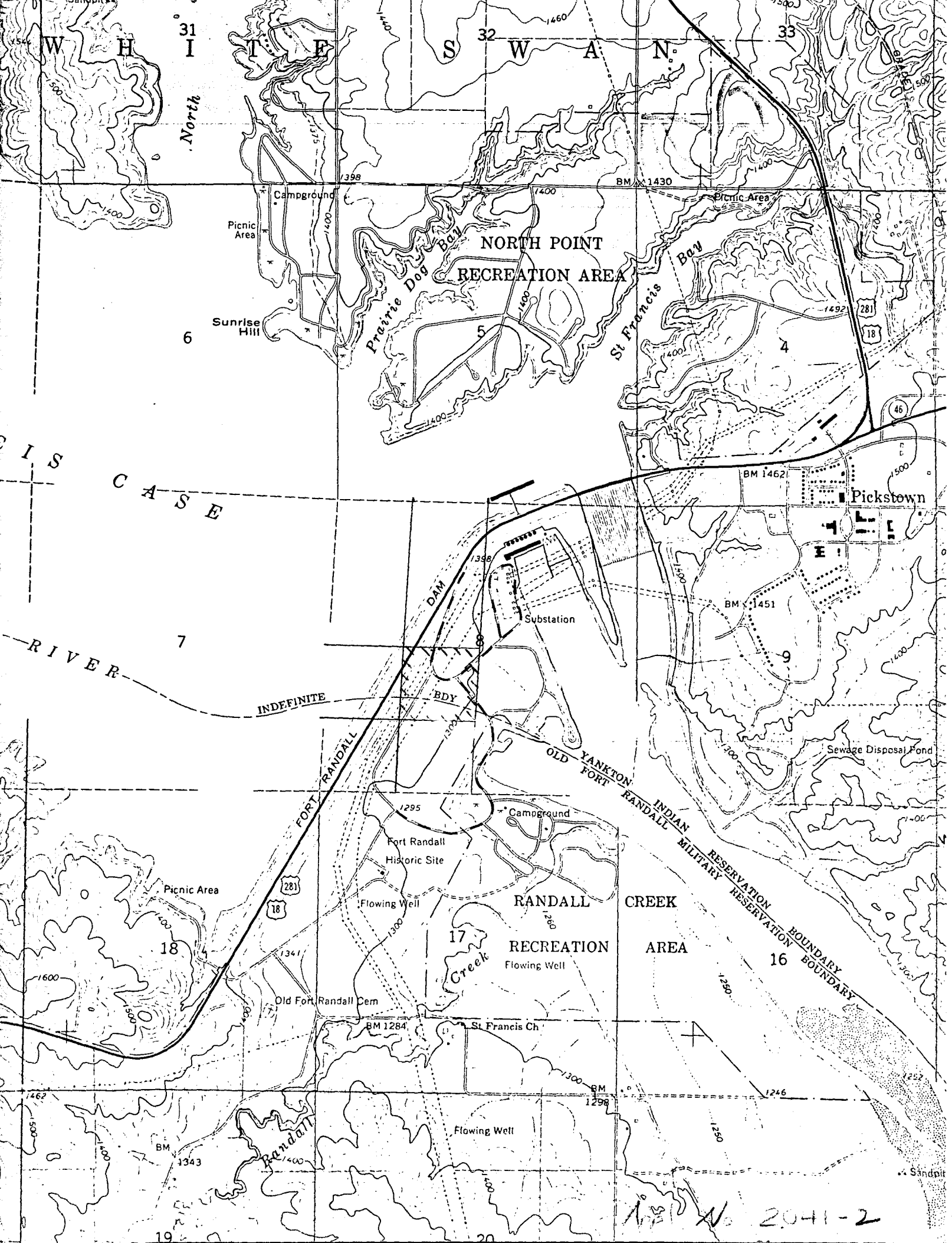
DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. TW-1	
PROJECT Ft. Randall Maint. Shop Test Well			INSTALLATION OMAHA		SHEET 10 OF 12 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
106.0			SILTY SAND (SM)			Continued drilling of 12" rock bit
107.0			loose - med. dense			Using Revert drill fluid. No fluid
108.0			no plast. to v. slight saturated			return; drilling blind.
109.0			gray to brown gray sand fine to coarse; predom fine & med.			Mixing ~12 lbs. Revert in ~1000 gal water.
110.0			< 25% coarse sand			
111.0			rare coarse gravel			
112.0			~20-25% silt			
113.0			occas. clay/silt str.			
114.0						
115.0						
116.0						
117.0						
118.0						

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. TW-1		
PROJECT Ft. Randall Maint Shop Test Well		INSTALLATION OMAHA		SHEET 11 OF 12 SHEETS		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
118.0			SAND (SP) loose - med. dense no plast. saturated gray to brown gray sand fine to coarse no ml fraction is dominant (possibly med. sand predominates) silty; ~10%			Continued drilling w/ 12" rock bit. No fluid return. Using Revert drice fluid; ~12 lbs per 1000 gallons of water. Using ~2000 gal. of water per 10' to 15' of drilling.
119.0						
120.0						
121.0						
122.0						
123.0						
124.0						
124.2				124.2		Pushed and drilled 3" split spoon sampler from 124.2' to 125.2'
124.4				P	D-5	
124.9				U	124.4- 124.9	Rec. 1.0
124.9				S		
125.0			coarse sand and fine gravel predominant occas. chalk float frag- ment	H	D-6	
125.2				125.2	124.9- 125.2	
126.0						
127.0						
128.0						
129.0						
130.0						

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. TW-1	
PROJECT Ft Randall Maint Shop Test Well			INSTALLATION OHADA		SHEET 12 OF 12 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130.0		SAND (SP) loose - med dense no plast. saturated			Continued drilling w/ 12" rock bit.
	131.0		gray to brown gray sand fine to coarse; med and coarse are predominant			Using Revert drill fluid. No fluid return; drilling blind.
	132.0		some fine gravel and chalk pieces; ~10-15%			Rods stuck in hole after drilling to 133.4'. Probably drilling in a coarse sand to gravel formation, which collapsed on top of rock bit after drilling stopped.
	133.0					
	133.4		Bottom of hole @ 133.4' RB 5/11/87			Hole depth taped @ 108.7' after pulling drill rods and bit. 5/11/87
			No log from 133.4' to 152.8'. Rock bit used; no fluid return, hence no cuttings. No samples taken.			Could not get 8" casing installed below 35', on 11 May 87. Returned on 12 May 87, pulled casing and drilled hole to 152.8' using rock bit and benzonite drill fluid.
			Bottom of hole @ 152.8' 12 May 87			Mixing ~200 lbs bentonite in ~1000 gal H ₂ O to produce 35 sec/qt mud (first batch). Additional batches mixed at 250 lbs to ~1000 gal H ₂ O for 40 sec/qt and 50 sec/qt mud. Last batch of fluid mixed ~370 lbs bentonite in ~1200 gal H ₂ O for 85 sec/qt fluid.
						Hole stayed open and 8" screen was installed. See installation diagram.
						Drilling ~10' to 15' per 1000 gallons of drill fluid



Appl. No. 2041-2



2041-2

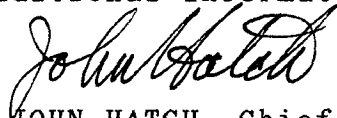
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2041-2, US Army Corp of Engineers

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. 2041-2, US Army Corps of Engineers-Omaha District, 215 North 17th Street, Omaha NE.

The Chief Engineer is recommending APPROVAL of Application No. 2041-2 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 qualification:

The well constructed pursuant to this permit shall be constructed by a licensed well driller and comply with Water Management Board Well Construction Rules, Chapter 74:02:04.

See the attached report for additional information.

A handwritten signature in cursive script, appearing to read "John Hatch".

JOHN HATCH, Chief Engineer
October 30, 1987

REPORT ON APPLICATION NO. 2041-2
U.S. Army Corps of Engineers - Omaha District
October 28, 1987

Application No. 2041-2 proposes to appropriate 0.34 cubic feet of water per second (11 acre-feet of water annually) from one well 155 feet deep. The well is to be located in the NE 1/4 SW 1/4 Section 8, T95N-R65W. Water is to be used to supply the Randall Creek Recreation Area, and for sanitary use in a new maintenance facility.

AQUIFER: Missouri-Tower

GEOLOGY AND AQUIFER CHARACTERISTICS

The well log which accompanies this application suggests this well is completed into the Tower Management Unit of the Missouri Aquifer. The tower aquifer underlies the flood plain and terraces of the Missouri River. The areal extent of the Tower Aquifer is estimated to be 2,800 acres and the total recoverable water in storage of the aquifer is estimated to be 42,000 acre-feet (Hedges, 1982). The aquifer consists mostly of sand and some gravel, with abundant coal fragments. The aquifer is under water table conditions and the static water level of the aquifer is expected to be approximately the same as the Missouri River. The Tower Aquifer may be hydrologically connected to the Codell Sandstone and is probably hydrologically connected to the Missouri Aquifer.

Recharge to the aquifer comes from precipitation, runoff over the aquifer, and from the Missouri River. The average annual recharge to the Tower Management Unit has not been quantified, but in this instance with hydraulic connection to the Missouri River, is virtually unlimited.

The Division of Water Rights does not monitor any observation wells in the Missouri-Tower Aquifer and there is no historic data (water levels) available.

REVIEW OF EXISTING WATER RIGHTS

The Division of Water rights has no record of any domestic wells in the area, and there are no existing water permits in this area.

CONCLUSIONS

1. The Missouri-Tower Aquifer is a viable aquifer and unappropriated groundwater is available.
2. The water appropriation requested by this application can be

made without impairment of the rights of others.

3. The well used to supply this application must be constructed according to the SD Well Construction Standards.

(74:02:04:30)



Kent Buhler

Natural Resources Engineer

References

Hedges, L.S., S. Burch, D. Iles, R. Barari, R. Schoon,
Evaluation of Ground-Water Resources, Eastern South
Dakota and Upper Big Sioux River, South Dakota and
Iowa, U.S. Army Corps of Engineers, Contract DARW
45-80-C-0135 1982, SD DWNR-Office of Geological Survey,
Vermillion, SD 57069.

Water Rights Division, "Domestic Well Log Files and Water
Permit Files", SD DWNR-Water Rights Division, Joe Foss
Building, Pierre, SD.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Water Rights Division
(605) 773-3352

October 30, 1987

NOTE:

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

Daniel E. Hokens
U.S. Army Corps of Engineers
215 N. 17th Street
Omaha, Nebraska 68102

Dear Mr. Hokens:

Your Application No. 2041-2 for a permit to appropriate water for
recreation use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Burke Gazette

printed at Burke,

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION
OF YOUR NOTICE OF INTENT TO APPROPRIATE WATER 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 at least twenty days before the board
meeting. We must receive Proof of Publication before the application can be
considered by the Water Management Board.

Sincerely,

RON DUVALL
Natural Resources Engineer

enclosures



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 30, 1987

Burke Gazette
Box 359
Burke, South Dakota 57523

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 2041-2. Please publish this notice once each week for two consecutive weeks in your paper. The first publication should be on or before November 4, 1987.

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 U.S. Army Corps of Engineers, 215 N. 17th St., Omaha, NE 68102.

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. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE
No. _____

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

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 publication of the following Notice on or before November 4, 1987 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2041-2 to Appropriate Water
and/or to Amend Water Permit or Water Right No. _____

Notice is hereby given that the U.S. Army Corps of Engineers-^{/Omaha District,} whose mailing address is 215 N. 17th Street, Omaha, NE 68102, South Dakota has made an application for a permit to appropriate 0.34 cubic feet of water per second (11 acre-feet of water annually) from one well 155 feet deep. The well is to be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8-T95N-R65W. Water is to be used to supply the Randall Creek Recreation Area and for sanitary use in a new maintenance facility.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2041-2 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 Howard Johnson,
Roosevelt & Jefferson rooms, 2211 LaCrosse, Rapid City, SD, Dec. 2 1987 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny 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 November 20, 1987. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reasons 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; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; ~~(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 November 20, 1987.

FIRST TRANSMITTAL NOTICE

No. 2041-2

Date 11-4-87

We are in receipt of your letter of Oct 30, 1987 enclosing Notice of Hearing to Appropriate Water by Application No. 2041-2 which was first published in our issue of November 4, 1987. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Cg. Fahrenbacher, editor

by Jeannette Frank

Name

CUT HERE

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



OK

The Burke Layton
Newspaper

beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson, Roosevelt & Jefferson rooms, 2211 LaCrosse, Rapid City, SD, Dec. 2, 1987 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 1) approve, 2) approve with qualifications, 3) defer, or 4) deny 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 November 20, 1987. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reasons 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.

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 November 20, 1987.

(104)

**NOTICE OF HEARING
On Application No. 2041-2
To Appropriate Water**

Notice is hereby given that the U.S. Army Corps of Engineers/Omaha District whose mailing address is 215 N. 17th Street, Omaha, NE. 68102. has made an application for a permit to appropriate 0.34 cubic feet of water per second (11 acre-feet of water annually) from one well 155 feet deep. The well is to be located in the NE 1/4 SW 1/4 Section 8-T95N-R65W. Water is to be used to supply the Randall Creek Recreation Area and for sanitary use in a new maintenance facility.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 2041-2 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is

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



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 8, 1987

NOTICE TO SUBMIT IRRIGATION QUESTIONNAIRE

The 1987 Irrigation Water Use Questionnaire(s) and a postage paid return envelope are enclosed. Water Management Board Rules or water permit qualifications require the Irrigation Questionnaire(s) to be submitted each year. Please complete the enclosed questionnaire(s) as accurately as possible and return by November 30, 1987.

If you have multiple permits, you may receive more than one questionnaire. If you are unable to complete the questionnaire for each water permit or water right, complete one and return all questionnaires. Make any necessary corrections to your mailing address. If you no longer own the land irrigated under a water permit or water right include the new owner's name and mailing address on the bottom of the questionnaire(s).

Actual irrigation water use from an aquifer or stream helps the Board determine if additional water permits can be approved. Returning the questionnaire also establishes a record of water use, and provides excellent documentation of South Dakota's rights and claims to water when dealing with downstream States.

If you have any questions, or need assistance in completing the form, please contact us.

For the Water Management Board,

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

enclosure



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

WATER RIGHTS DIVISION
(605) 773-3352

November 23, 1987

Tom Jensen, Environmental Branch
Omaha District, Corps of Engineers
1612 U.S. Post Office & Courthouse
Omaha, Nebraska 68102-4978

Dear Mr. Jensen:

I am writing to advise you that the legal notice of hearing published in the Burke Gazette does not meet statutory requirements. The notice was to be published on November 4 and 11, 1987; however, the newspaper did not print the notice on November 11, 1987. SDCL 46-2A-4 specifies that notice of hearing shall be given once each week for two successive weeks with the second publication at least 20 days before the Board meeting. The newspaper contacted the Division of Water Rights via phone on November 16, 1987 and indicated the notice of hearing did not get published on November 11, 1987. Therefore, the notice of hearing was not printed for two successive weeks and the 20 day deadline for publishing ended on November 12, 1987.

The hearing on Water Permit Application No. 2041-2 will NOT be held at the December 2, 1987 Board meeting due to the incomplete notice of hearing. The legal notice of hearing will need to be readvertised for the March 2 and 3, 1988 Board meeting. The readvertisement is needed to ensure that the water permit application is free from any potential legal problems due to noncompliance with statutory requirements. The information needed to readvertise will be sent under separate cover.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Ron Duval".

Ron Duval
Natural Resources Engineer

RD:ms

Enc.

cc: Burke Gazette



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Water Rights Division
(605) 773-3352

December 18, 1987

NOTE:

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

Daniel E. Hokens
U.S. Army Corps of Engineers
215 N. 17th Street
Omaha, Nebraska 68102

Dear Mr. Hokens:

Your Application No. 2041-2 for a permit to appropriate water for
recreation use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Burke Gazette

printed at Burke

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION
OF YOUR NOTICE OF INTENT TO APPROPRIATE WATER 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 at least twenty days before the board
meeting. We must receive Proof of Publication before the application can be
considered by the Water Management Board.

Sincerely,

RON DUVALL
Natural Resources Engineer

enclosures



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

WATER RIGHTS DIVISION
(605) 773-3352

December 18, 1987

Burke Gazette
Box 359
Burke, South Dakota 57523

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 2041-2. Please publish this notice once each week for two consecutive weeks in your paper. The first publication should be on or before December 30, 1987.

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 U.S. Army Corps of Engineers, 215 N. 17th St., Omaha, NE 68102.

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. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE
No. _____

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

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 publication of the following Notice on or before December 30, 1987 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2041-2 to Appropriate Water
and/or to Amend Water Permit or Water Right No. _____

Notice is hereby given that the U.S. Army Corps of Engineers-^{/Omaha District} whose mailing address is 215 N. 17th Street, Omaha, NE 68102, South Dakota has made an application for a permit

to appropriate 0.34 cubic feet of water per second (11 acre-feet of water annually) from one well 155 feet deep. The well is to be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8-T95N-R65W. Water is to be used to supply the Randall Creek Recreation Area and for sanitary use in a new maintenance facility.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2041-2 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 Joe Foss Building, room 216, 523 E. Capitol, Pierre, SD, March 2, 1988 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny 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 February 19, 1988. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reasons 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; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; ~~(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 February 19, 1988.

Affidavit Of Publication

STATE OF SOUTH DAKOTA
COUNTY OF GREGORY

ss.

C. J. FAHRENBACHER of said county being first duly sworn, on oath says that he is the publisher of THE BURKE GAZETTE, a weekly newspaper printed and published in Burke said County of Gregory and has full and personal knowledge of all 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 was and is printed wholly or in part in an office maintained at said place of publication; that the

NOTICE OF HEARING

a printed copy of which, taken from the paper in which the said newspaper is printed, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once in each week for 2 successive weeks, on the day of Wednesday, December 30, 1987, and on the day of Wednesday, January 6, 1988, on which said newspaper was regularly published, to-wit:

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. Decision 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 of 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 February 19, 1988.

Dec.30-Jan.6 (104)

that the full amount of the fees for the publication of the said notice is \$ 39.13.

Subscribed and sworn to before me this 6 day of January, 1988.

Jeanette Frank
Notary Public

County of Gregory, South Dakota

NOTICE OF HEARING On Application No. 2041-2 to Appropriate Water

Notice is hereby given that the U.S. Army Corps of Engineers/Omaha District whose mailing address is 215 N. 17th Street, Omaha, NE 68102, has made an application for a permit to appropriate 0.34 cubic feet of water per second (11 acre-feet of water annually) from one well 155 feet deep. The well is to be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8-T95N-R65W. Water is to be used to supply the Randall Creek Recreation Area and for sanitary use in a new maintenance facility.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 2041-2 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 Joe Foss Building, room 216, 523 E. Capitol, Pierre, SD, March 2, 1988 at 10:00 a.m.

The recommendation of the Chief of Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny 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 February 19, 1988. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reasons 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; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1,



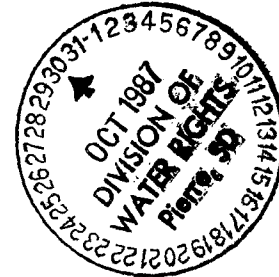


DEPARTMENT OF THE ARMY
OMAHA DISTRICT, CORPS OF ENGINEERS
1612 U.S. POST OFFICE AND COURTHOUSE
OMAHA, NEBRASKA 68102-4978

October 28, 1987

REPLY TO
ATTENTION OF

Environmental Branch



Mr. Ron Duvall
South Dakota Department of Water
and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Dear Mr. Duvall:

I have enclosed the original documents required by your office for a permit to appropriate water for the proposed well at the Fort Randall Dam.

Thank you for your cooperation. If additional information is required, please contact Mr. Tom Jensen of my staff, Telephone: (402) 221-4876.

Sincerely,


S. L. Carlock, P.E.
Chief, Environmental Branch
Engineering Division

Enclosures

WATER RIGHTS DIVISION
(605) 773-3352

November 4, 1987

Dale Benson
PO Box 331
Burke, South Dakota 57523

Dear Mr. Benson:

This letter is in response to our phone conversation on September 3, 1987 regarding the Corps of Engineers applying for a water permit in the Randall Creek Recreation Area. An application for a water permit has been submitted. Enclosed is a copy of the application, report, recommendation, map and public notice to be printed in the Burke Gazette.

Please contact us if you have any questions.

Sincerely,

Ron Duvall
Natural Resources Engineer

RD:ms
Enc.

WILLOUGHBY & BENSON

Attorneys At Law

Burke, South Dakota 57523-0331

Harvey Willoughby

Dale Benson

John D. Jacobsen

December 9, 1987

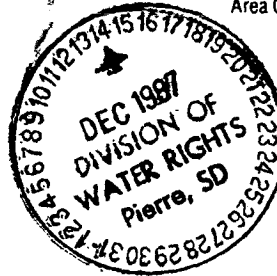
P.O. Box 331

Telephone Number 775-2656

Area Code 605

Lieutenant Colonel Jones
Department of the Army
Omaha District, Corps of Engineers
1612 U.S. Post Office & Courthouse
Omaha, NE 68102-4979

COPY



RE: East Gregory County Rural Water Association
(Randall Creek Service Area)

Dear Lieutenant Colone Jones:

Since talking to you, I learned that the South Dakota Department of Natural Resources has rescheduled the hearing on the Corps' application for a water permit due to a publication error. This delay was in no way caused by myself or my client, but I feel that it is fortunate, as it should give us additional time to attempt to negotiate a hookup fee and a bulk users rate between the Corps and East Gregory County, which I believe would be to the economic advantage of all parties concerned.

From our telephone discussion, I understand that the Corps' decision to develop its own water system was based solely upon economics, and in that regard I would ask that you forward me your cost projections of the following items:

1. Digging your own well;
2. Developing your own water system;
3. An estimatæ of your pumping, purification and maintenance costs;

with the understanding that East Gregory County will be given an opportunity to review these figures and make a final proposal to the Corps.

As you know, East Gregory County did oversize its pipe, obtain an additional water permit and develop a new well field, with the understanding that the Corps would ultimately hook on to the system. In summary, I believe the following could logically be expected to flow from a negotiated bulk users contract:

- 1) The Corps would reap a public relations benefit.
- 2) East Gregory County Rural Water Association could recoup all or part of its already-expended funds for oversizing its system.
- 3) The Corps and East Gregory County could avoid considerable expenses for attorney fees and court costs.
- 4) The Corps could cut its project construction cost considerably.
- 5) There would be no duplication of water permits for the same service area.
- 6) The campers in the Randall Creek Area will be assured high-quality drinking water.
- 7) There would be no need for a public hearing on the Corps' application for a permit (which presumably my client would oppose).
- 8) It is economical.

December 9, 1987

Lieutenant Colonel Jones

East Gregory County Rural Water Association (Randall Creek Service Area)

Page Two

Yours very truly,

Dale Benson

DB:cmj

cc: EGCRWAss., Inc.

~~John~~ Hatch - Dept. of Water & Natural Resources

ADDITIONAL: JOHN HATCH COPY ONLY-----

If the Corps desires to proceed on its application, please notify this office of the hearing date and advise as to when and where East Gregory County should file its objections.

Thank you.



DEPARTMENT OF THE ARMY
OMAHA DISTRICT, CORPS OF ENGINEERS
1612 U.S. POST OFFICE AND COURTHOUSE
OMAHA, NEBRASKA 68102-4978

December 11, 1987

REPLY TO
ATTENTION OF

Executive Office



Mr. Ron Duvall
South Dakota Department of
Water and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3171

Dear Mr. Duvall:

Per your letter dated November 23, 1987 to Mr. Tom Jensen of my staff, I have become aware of the delay to hear our request for a new water supply well at Ft. Randall Dam. I had hoped the Water Permit Application would have been on the agenda of the December 2, 1987 Water Management Board Meeting. Unfortunately, the failure of the Burke Gazette to publish the required second notice will significantly delay the hearing date.

I appreciate the efforts of you and your staff to file the water permit application for this well. I request that you again expend the effort necessary to include the hearing of this permit application at the March 2 and 3, 1988 Board Meeting. If appropriate, please provide necessary reminders to the Burke Gazette.

Please feel free to contact Mr. Roger Stormo at (402) 221-4420 for any additional assistance required from this office.

Sincerely,

Steven G. West
Colonel, Corps of Engineers
District Engineer



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

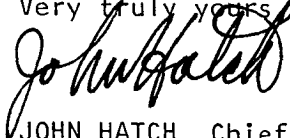
APR 28 1988

Daniel E. Hokens
U.S. Army Corps of Engineers, Omaha District
215 North 17th Street
Omaha, Nebraska 68102

Dear Mr. Hokens:

Enclosed herewith is your Water Permit No. 2041-2 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. 2041-2.

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.



DEPARTMENT OF THE ARMY
OMAHA DISTRICT, CORPS OF ENGINEERS
LAKE FRANCIS CASE OFFICE
P.O. BOX 109
PICKSTOWN, SOUTH DAKOTA 57367-0109

REPLY TO
ATTENTION OF
Lake Francis Case Office

August 29, 1989

SD Department of Water and Natural Resources
ATTN: James Goodman
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181



Gentlemen:

In response to your letter dated August 22, 1989, I acknowledge the responsibilities incurred and appreciate the general information provided.

The new well constructed under Water Permit 2041-2 will be used to supply potable water for the existing Randall Creek Recreation Area (consisting of 5 comfort and fish cleaning stations) as well as the nearly completed maintenance facility. The existing wells (5) used for the recreation area will no longer be used as potable water sources. The supply line from the existing wells were disconnected from the potable water facilities and were reconstructed for use as lawn irrigation hydrants. The water from the existing wells will be considered non-potable water and are inaccessible for public use. The new well will be used to replace the old wells, but we wish not to abandon them. If this does not comply with the South Dakota Water Law, please do not hesitate to identify the correction necessary.

I also believe this office has complied with Section 46 of the Centennial Environmental Protection Act as passed by the 1989 Legislature. We, the owner, have collected water samples for nitrate, sodium, conductivity and sulfate. Attached you will find the results of those tests performed by the South Dakota Office of Drinking Water. A contractor has collected water samples for coliform bacteria initially and in past weeks this office has collected samples on a weekly basis for coliform bacteria. Attached find results which determined the water bacterially safe to drink. For recent test results, please contact the South Dakota Office of Drinking Water.

If you have any questions or need information, please contact Ken Swanda or Dennis Permann at (605) 487-7844.

Sincerely,

Russell L. Bywater
Acting Lake Manager

Attachments

CORP of Engineers

Water Supply: Water Permit 2041-2
 City, County: Ft Randall Dam, Gregory Co
 Source Sampled: Well# At Maintenance Facility Depth 138'
 Date drilled Jan-May, 89 Other _____
 Type of Sample: Raw X Treated _____ Composite _____
 Treatment Process(s): _____

Date Collected: 7-18-89 8:30 am
 Collected By: D. Permann
 Report Mailed To: COE, Ft. Randall Project
 Attn: Dennis Permann
Box 109, Pickstown, SD 57367
487-7844

Lat: _____ Long: _____
 Comments: _____

Received By Lab: 7-20-89 0800 PD
 Report Sent By Lab: _____ AUG 9 1989 NS

Parameter	Maximum Limit	Results	Parameter	Suggested Limit	Results
Arsenic (As)	50 ug/l		Chloride (Cl)	250 mg/l	30.2
Barium (Ba)	1000 ug/l		Iron (Fe)	0.3 mg/l	2.99
Cadmium (Cd)	10 ug/l		Manganese (Mn)	0.05 mg/l	1.32
Chromium (Cr)	50 ug/l		Sulfate (SO ₄)	250 mg/l	546
Lead (Pb)	50 ug/l		Tot. Diss. Solids (TDS)	500 mg/l	1056
Mercury (Hg)	2 ug/l		pH	6.5-8.5	7.58
Nitrate (NO ₃) (as N)	10 mg/l	<0.1	Alkalinity-M (CaCO ₃)	mg/l	276
Selenium (Se)	10 ug/l		Alkalinity-P (CaCO ₃)	mg/l	0
Silver (Ag)	50 ug/l		Bicarbonate (HCO ₃)	mg/l	337
Fluoride (F)	2.4 mg/l	1.10	Carbonate (CO ₃)	mg/l	0
Gross alpha	15 pCi/l		Spec. Cond. @ 25°C	umhos/cm	1500
Gross radium	pCi/l		Calcium (Ca)	mg/l	130
Radium 226	5 pCi/l		Magnesium (Mg)	mg/l	57.1
OTHER PARAMETERS			Hardness (CaCO ₃)	gpg: 32.7 mg/l	560
			Langelier Index		
			Sodium (Na)	mg/l	148
			Potassium (K)	mg/l	15.5
			Field temperature	°F	°C
			Nitrite (NO ₂) (as N)	mg/l	
LAB COMMENTS: STATE HEALTH LABORATORY			mg/l = milligrams/liter = parts/million (ppm)		
1 NO ₃ 500 E. Capital			ug/l = micrograms/liter = parts/billion (ppb)		
PIERRE, SD 57501-5093			gpg = grains per gallon		
Billed on Yearly Billing			pCi/l = picocuries per liter		
Percentage of Error: 0.6/3.0			LAB NUMBER: 606R		
WNR - 606R - 6/82			84.25		

**SOUTH DAKOTA STATE DEPARTMENT OF WATER AND NATURAL RESOURCES
WATER TESTING DATA AND REPORT FORM**

RESULTS OF TESTING (DO NOT WRITE IN THIS SPACE)	
☒ Bacteriologically safe at the time of sampling.	☐ Nitrate content not of concern.
☐ Bacteriologically unsafe for drinking or washing uncooked foods.	☐ High Nitrate. Do not use for infants up to 6 months age.
☐ Bacteriologically unsafe for swimming.	
☐ Send recheck samples. See #7 on reverse side for recheck sampling instructions.	

FILL IN NAME AND ADDRESS OF PERSON TO RECEIVE REPORT

Name CORPS of ENGINEERS
 Street or RFD FT. RANDALL
 City PICKSTOWN, S.D. Zip Code 57367
 Phone number 487-7844

PLEASE PRINT CLEARLY
 (Sampling instructions on reverse side)

WATER SUPPLIES ONLY

Name of water supply: NEW MAINTENANCE PLUG WELL
 Sample Collector: DUANE KIRWAN
 Date collected: 8-21-87 Time: 14:45
 Type of Supply: Public Private Other (Explain below)
 Source: Lake Stream Cistern Well Spring Gallery
 Type of Well: Drilled Dug Driven Bored
 Depth of Well: 138 Diameter of Well: 5"
 Location of Sampling Tap: NEW MAINT. PLUG WELL
 Purpose of Sample (specify): Routine
 Recheck of Unsafe Sample Other (Explain below)

SWIMMING POOL OR BEACH ONLY

City: _____
 Name-Pool or Beach: _____
 Sample collector: _____
 Date: _____
 Pt. of Collection: _____
 Time of Collection: _____
 No. Swimmers present: _____
 Chlorine residual: _____ ppm.
 pH: _____

Remarks: _____

Nitrate Nitrogen: _____ ppm. Hardness: _____ ppm. or _____ gpg. Iron: _____ ppm.
 Fluoride: _____ ppm. Manganese: _____ ppm.

ml Portion	Number of Tubes	LST		BGB		Pos. Tubes	MPN	Membrane Filter
		24 hours	48 hours	24 hours	48 hours			
10	5						0.4	Bacteria Total Coliform
								Count _____ per 100 ml.
								Bacteria
								Count _____ per _____ ml.

Lab No. 1351 Date Received 8/22/87 Date Reported 8-22-87

**SOUTH DAKOTA STATE DEPARTMENT OF WATER AND NATURAL RESOURCES
WATER TESTING DATA AND REPORT FORM**

RESULTS OF TESTING (DO NOT WRITE IN THIS SPACE)	
☒ Bacteriologically safe at the time of sampling.	☐ Nitrate content not of concern.
☐ Bacteriologically unsafe for drinking or washing uncooked foods.	☐ High Nitrate. Do not use for infants up to 6 months age.
☐ Bacteriologically unsafe for swimming.	
☐ Send recheck samples. See #7 on reverse side for recheck sampling instructions.	

FILL IN NAME AND ADDRESS OF PERSON TO RECEIVE REPORT

Name CORPS of ENGINEERS
 Street or RFD FT RANDALL DAM
 City PICKSTOWN, S.D. Zip Code 57367
 Phone number 487-7844

PLEASE PRINT CLEARLY
 (Sampling instructions on reverse side)

WATER SUPPLIES ONLY

Name of water supply: NEW MAINTENANCE PLUG WELL
 Sample Collector: DUANE KIRWAN
 Date collected: 8-21-87 Time: 15:00
 Type of Supply: Public Private Other (Explain below)
 Source: Lake Stream Cistern Well Spring Gallery
 Type of Well: Drilled Dug Driven Bored
 Depth of Well: 138 Diameter of Well: 5"
 Location of Sampling Tap: NEW MAINT. PLUG WELL
 Purpose of Sample (specify): Routine
 Recheck of Unsafe Sample Other (Explain below)

SWIMMING POOL OR BEACH ONLY

City: _____
 Name-Pool or Beach: _____
 Sample collector: _____
 Date: _____
 Pt. of Collection: _____
 Time of Collection: _____
 No. Swimmers present: _____
 Chlorine residual: _____ ppm.
 pH: _____

Remarks: 5' water in from new well - M.D.L.

Nitrate Nitrogen: _____ ppm. Hardness: _____ ppm. or _____ gpg. Iron: _____ ppm.
 Fluoride: _____ ppm. Manganese: _____ ppm.

ml Portion	Number of Tubes	LST		BGB		Pos. Tubes	MPN	Membrane Filter
		24 hours	48 hours	24 hours	48 hours			
10	5						0.4	Bacteria Total Coliform
								Count _____ per 100 ml.
								Bacteria
								Count _____ per _____ ml.

Lab No. 1349 Date Received 8/22/87 Date Reported 8-24-87



DEPARTMENT OF THE ARMY
OMAHA DISTRICT, CORPS OF ENGINEERS
LAKE FRANCIS CASE OFFICE
P.O. BOX 109
PICKSTOWN, SOUTH DAKOTA 57367-0109

REPLY TO
ATTENTION OF

Lake Francis Case Office

March 21, 1990



Department of Water and Natural Resources
Water Rights Division
Joe Foss Building
Pierre, South Dakota 57501-3181

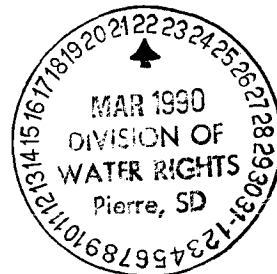
Gentlemen:

Attached is the completion report on Water Permit No. 2041-2. The work was completed under Contract #DACW45-87-C-0461 titled "Maintenance Facility". If you need any additional information, please contact my office.

Sincerely,

Merritt C. Stegmeier
Merritt C. Stegmeier
Lake Manager

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE



Date 21 March 1990

TO: Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501-3181

FROM: U.S. Army Corps of Engineers
Lake Francis Case Office P.O. Box 109 Pickstown, SD 57367
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 2041-2.

Water Permit No. 2041-2 states that the diversion system is to be constructed by 2 March 1993, and that the water it put to beneficial use by 2 March 1997.

The diversion system was completed on 26 January 1990.
Applying the water to beneficial use was completed on 26 January 1990.

You may schedule an inspection so that the Water License may be issued.

Merritt C. Stegmeier
Merritt C. Stegmeier
Lake Manager

signature



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

April 28, 1992

2041-2

Daniel Hokens
US Army Corps of Engineers
215 N 17th Street
Omaha, NE 68102

RE: Ft Randall Maintenance Facility

Dear Mr. Hokens:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 2041-2, has been completed. Your final water right document, the Water License, can now be issued.

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

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Genny McMath
Natural Resources Analyst
(605) 773-3352

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

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

413223

Pierre, May 26, 1992

RECEIVED OF US Army Corps of Engineers, PO Box 19, Pickstown SD 57367
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works 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. <u>2041-2</u>	50	00
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	50 00

By John Hatch/gmk
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 12 1992

2041-2

Daniel Hokens
US Army Corps of Engineers
215 N. 17th Street
Omaha, NE 68102

Dear Mr. Hokens:

Enclosed is Water License No. 2041-2. This is the final water right document completing your process of obtaining a Water Right.

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.

Very truly yours,

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

enclosures

cc: US Army Corps of Engineers, P.O. Box 19, Pickstown, SD 57367

Missouri River Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

TO: Chief Engineer, Division of Water Rights, DWRN, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by U.S. Army
Corps of Engineers of 215 N. 17th St. Omaha, NE holder of
Permit No. 2041-2, bearing the priority of October 28 19 81 authorizing
the diversion of 0.34 cu. ft. per second of the waters of Groundwater
for Recreation & Potable Water purposes, in Gregory County.

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

A. Works used to divert the water:

3 phase Elec. Grouds 15Hp Submersible Pump

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

Approximately 5000 ft. Buried 4" PVC pipe

C. Works used to apply water to beneficial use:

5 Comfort Stations & Fish Cleaning Facility &
Maintenance Facility BuildingThe system is in the following condition GoodThe point of diversion is located Approx. 2300 ft. East & 1500 ft. North of the
SW corner of Sec. 8-T95N-R65W. (NE 1/4 SW 1/4)The works are capable of diverting and conveying to the place of use 0.33 cfs (150 gpm)
cu. ft. per second of water which is to be used for Recreation & Potable WaterWater has been put to beneficial use to the maximum extent as follows: Water is being used at
the Ft. Randall Recreation Area at 5 Comfort Stations,
a Fish Cleaning Facility, the Maintenance Building and
several hydrants.~~comprising a total of _____ acres of land~~ and the license should be issued for 0.33 cfsApplicable permit qualifications have been complied with ☒ Yes ☐ NoExceptions to compliance are: _____ Date July 31, 1991

(signature)

Timothy G. Schaal

LICENSE FOR PERMIT NUMBER 2041-2

1. Legal location of wells: Approximately 2300 ft. East & 1500 ft. North of
the SW Corner of Sec. 8-T95N-R65W (NE 1/4 SW 1/4)
dams & structures: _____

2. Well Information: Well Drilling Firm Corps of Engineers

Completion Report Yes ☒ No _____ No. of Wells 1 Depth 155 ft.
Casing a) diameter 8" Screen a) type Stainless Steel
b) length 135 ft. b) length 20 ft.
c) type Black Steel Static Water Level ≈ 48 ft.
Pump a) make Gloubs 15HP Submersible Motor a) make 3 Phase Power
b) model 150 H15 b) model No. _____
c) size 4" c) horsepower rating 15 Hp
d) capacity 150 gpm
e) turbine pump - no. of stages 6
f) operating PSI _____

3. Distribution lines or canals

a) size 4"
b) type Buried PVC
c) length ≈ 5000 ft.

4. Dam Information:

a) height to crest _____ m) Outlet tubes:
b) height to primary spillway _____ 1) diameter _____
c) height to secondary spillway _____ 2) type _____
d) crest width _____ 3) valved (Y/N) _____
e) crest length _____ 4) valve type _____
f) spillway length _____ 5) location on structure _____
g) spillway width _____
h) approx. storage _____ n) Category of Dam _____
i) approx. storage to crest _____
j) date constructed _____
k) inspection sheet completed (Y/N) _____
l) Name of Contractor _____

5. System Type a) sideroll:

- 1) length _____ feet
- 2) diameter of pipe _____
- 3) make, model & number of
sprinklers _____
- 4) spacing of sprinklers _____
- 5) nozzle size _____

c) gun

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____
- 4) hose size _____
- 5) hose length _____

e) gated pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

f) portable boom

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____

b) towline:

- 1) length _____ feet
- 2) make, model & number of
sprinklers _____
- 3) spacing of sprinklers _____
- 4) nozzle size _____

d) center pivot

- 1) make _____
- 2) number of towers _____
- 3) distance between towers _____
- 4) overall length _____
- 5) end gun (Y/N) _____
- 6) high or low pressure _____
- 7) make & size of nozzles _____
- 8) capacity (GPM) _____

g) siphons

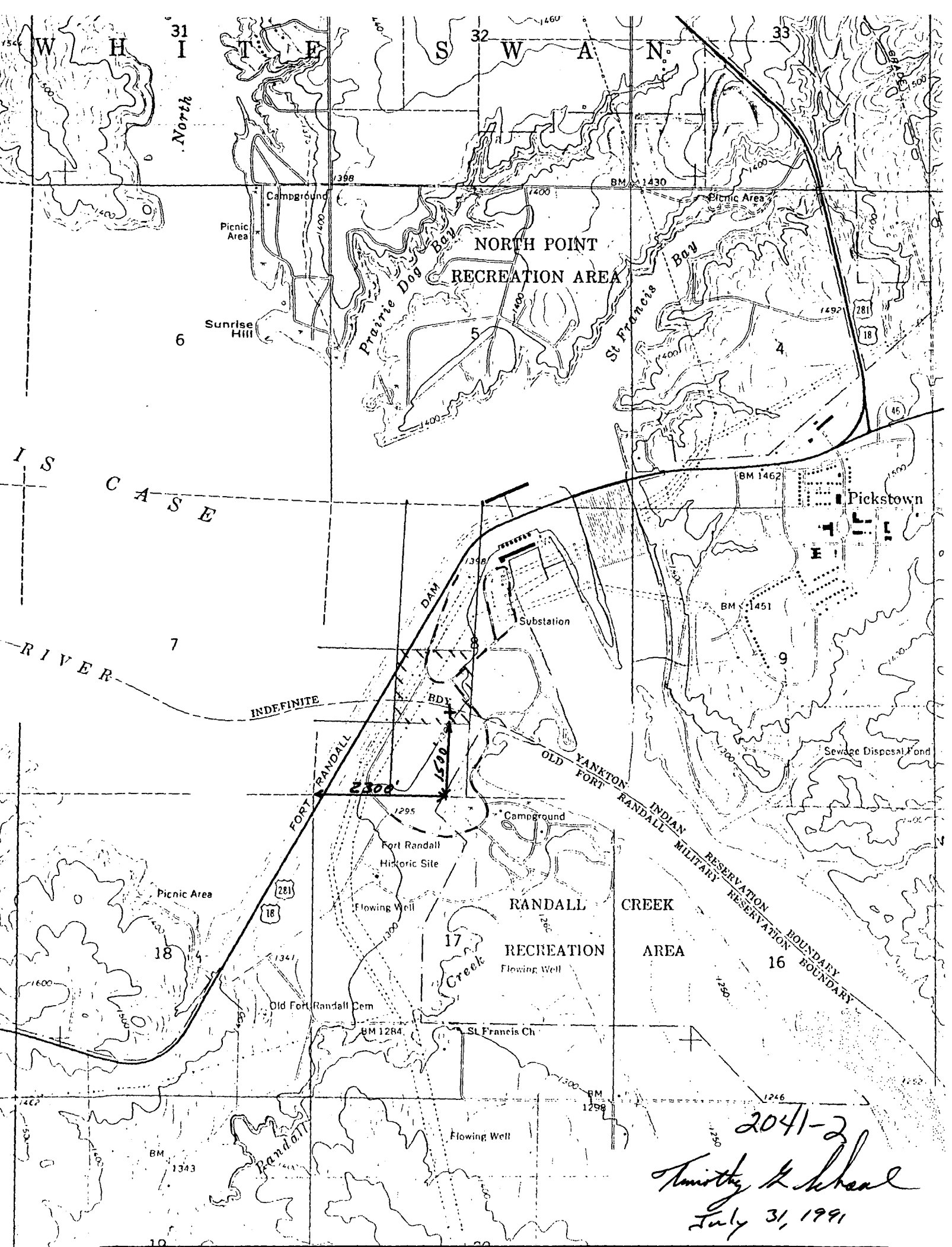
- 1) size _____
- 2) number _____

NOTE: For Permits with additional wells or changes in well locations, record the following for each well: pumping capacity, date constructed, well driller and if a well log is available.

Indicate any other permit(s) which are associated with project _____

Yes	No	Check Items
___NA___	___	1. Soil and water permit lands agree with lands being irrigated and lands listed on permit?
___X___	___	2. Special qualifications to permit being abided by?
___X___	___	3. All structures, wells and lands on map?
___NA___	___	4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period?
___NA___	___	5. Is chemigation used?
___NA___	___	6. If yes, does equipment comply with chemigation rules?

REMARKS:



NORTH POINT
RECREATION AREA

RANDALL
CREEK
RECREATION AREA

2041-2
Timothy K. Kheel
July 31, 1991

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 2041-2

(1) US Army Corps of Engineers of 215 N. 17th St., Omaha, NE 68102 made Application No. 2041-2, October 28, 1987 for a water permit to appropriate 0.34 cubic feet of water per second from groundwater (one well), Gregory County, South Dakota for recreation and sanitary purposes. Permit No. 2041-2 with a priority date of October 28, 1987 was approved March 2, 1988 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before March 2, 1993 and for the application to beneficial use of said water on or before March 2, 1997. The permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" which indicated the project was completed and water put to beneficial use on January 26, 1990.

(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 divert 0.33 cubic feet of water per second for beneficial use. The location of the diversion point is: approximately 2300 feet east and 1500 feet north of the SW corner of Section 8, T95N, R65W (NE 1/4 SW 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use at the Ft. Randall Recreation Area in five comfort stations and a fish cleaning facility. Water is also put to use in the maintenance building and through several hydrants.

(4) Pursuant to Section 46-5-30.1 US Army Corps of Engineers of 215 N. 17th St., Omaha, NE 68102 the holder(s) and/or owner(s) of Water Permit No. 2041-2 is issued a license to appropriate water, the right to use 0.33 cubic feet of water per second from groundwater (one well) with a priority date of October 28, 1987 from the location specified in (2) of this license. The water is to be used for recreation and sanitary purposes. This license is subject to any limitations or qualifications listed in Water Permit No. 2041-2 and subject to South Dakota State Law.


AUG 12 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources