

WATER PERMIT NO. 1929-1

Name of Applicant: James Scull

Address: PO Box 7636, Rapid City SD 57709 Phone: 605 342-2379

Amount of Water Claimed: 57 AF Total Acres: na

Source of Water Supply: runoff

Water to be used for: fwp County: Meade

Type of Waste Disposal System:

Location: about 50 miles east of Sturgis

PRIORITY Date Received: 7-30-12 Application/License Fee: \$ 700

Corrected Application Received: Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SW ¼ SW ¼ Sec 26-T6N-R14E

Water Impounded: SW ¼ Sec 26-T6N-R14E

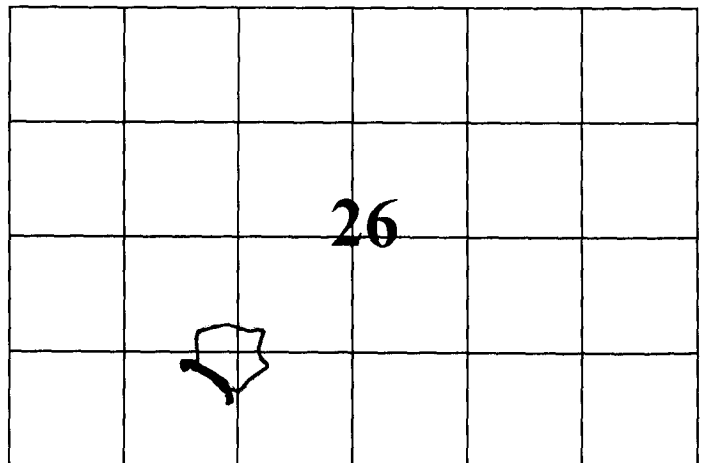
Depth of Well: NA

Well Driller:

Remarks:

Type of Map: plat

Prepared by: Dave Konechne, PE



Reviewed and the Number Assigned on: 7-31-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

SD EForm - 1585LD V3

FORM 2: Application for uses other than irrigation

(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>1929-1</u>	Hydrologic Unit <u>10120202</u>
	Basin <u>Belle Fourche River</u>	<u>605-342-2503</u>
	Newspaper <u>Meade Co. Times 1022 Main Street 57785</u>	<u>Rapid City Journal PO Box 450/57709 - 605-394-8300</u>

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JUL 30 2012

WATER RIGHTS
PROGRAM

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

Check use(s) of water:

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

Type of Application:
(check one)

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

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

- Name of Applicant James Scull Phone 605-342-2379
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address PO Box 7636, 803 Industrial Ave. Rapid City SD 57709
(Address) (City) (State) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM _____ 57.0 ***AF
(**Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply surface water run-off
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Meade
SW1/4 SW1/4 Section 26 T6N R14E : Water Impounded SW1/4 Sec 26 T6N R14E
- County or counties where water will be used Meade
- Annual period during which water is to be used Jan. 1 - Dec 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
See attached engineering report

STATE OF SOUTH DAKOTA)
County of Meade)

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

I, James Scull, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.Applicant's signature James ScullSubscribed and sworn to before me this 23 day of July 20 12Notary Public signature Nancy Ann Chylka

**SOUTH DAKOTA
WATER PERMIT NO. 1929-1**

Date of first receipt of application July 30, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1929-1 to James Scull, PO Box 7636, 803 Industrial Ave, Rapid City SD 57009 authorizing the construction of the dam and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1929-1 authorizes impoundment of 57 acre-feet of water from runoff by reconstructing an existing dam located in the SW 1/4 SW 1/4 Section 26 with water impounded in the SW 1/4 Section 26; all in T6N-R14E.
2. The water appropriated shall be used for the purpose of fish and wildlife propagation purposes and livestock water and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1929-1 is September 4, 2012.
5. The date from which applicant may claim right is July 30, 2012.
6. One-fifth of the construction is to be completed on or before March 4, 2015.
7. All construction is to be completed on or before September 4, 2017.
8. Water is to be put to beneficial use on or before September 4, 2021.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Water Permit No. 1929-1 authorizes an impoundment with a storage capacity of 57 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

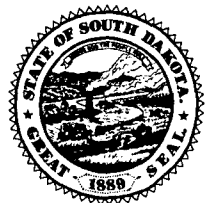
WATER MANAGEMENT BOARD

By: Garland Erbele

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

OCT 24 2012

date



(type or print in ink)

1. Well Information - Proposed Construction

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

2. Wastewater Disposal System Information

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

3. Dugout Information

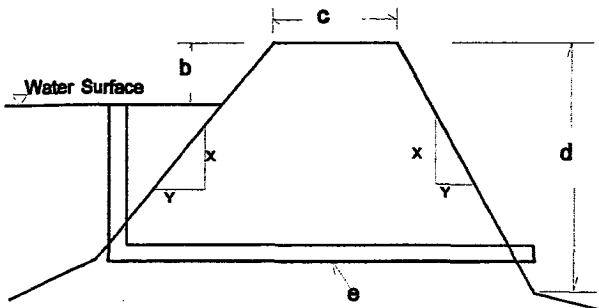
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

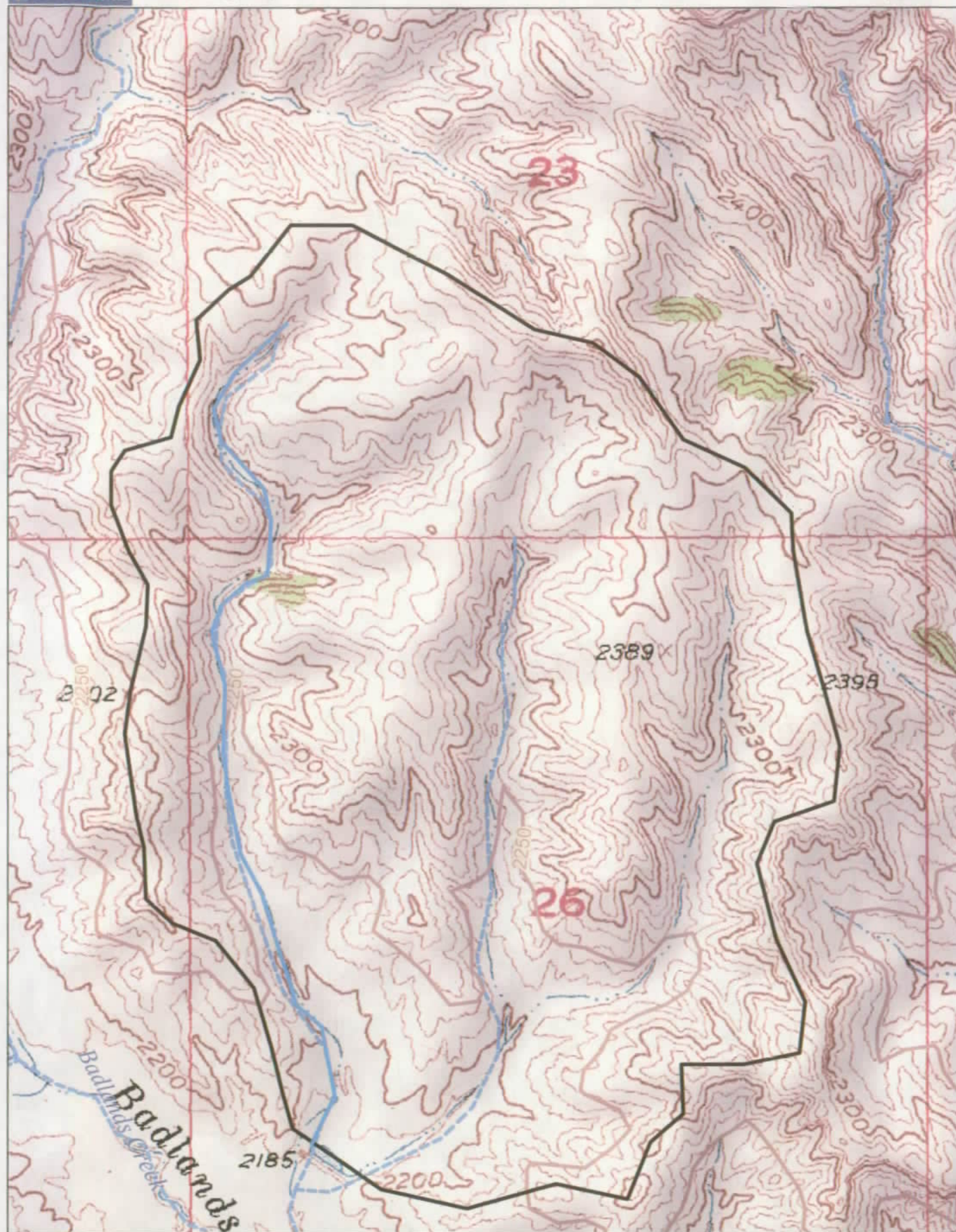
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

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

Konechne Engineering
104 Capitol Hill Dr
Pierre, SD 57501



- b) Freeboard _____ 4ft
- c) Crest Width _____ 12ft
Crest Length _____ 600ft
- d) Height _____ 14ft
- e) Primary Outlet Capacity _____ 13 cfs
If pipe, diameter _____ 12"
- f) Secondary Spillway Capacity _____ 380cfs
Spillway Width _____ 40ft
- g) X & Y Slope _____
Upstream _____ 3:1
Downstream _____ 3:1
- h) Surface Area of Impoundment _____ 11.4ac
- i) Storage _____ 57.0 Acre Feet
- j) Drainage Area Above Dam _____ 603.0 Acres



Data use subject to license.

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www.delorme.com

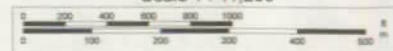
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WATER RIGHTS PROGRAM



Scale 1 : 11,200


$$1'' = 933.3 \text{ ft}$$

Data Zoom 13-2

* I N V O I C E *

SD DENR - Water Rights
523 E Capitol Ave
Pierre SD 57501

July 30, 2012
Invoice No. 730-12/2

USFWS
Norma Martin
Brookings SD 57006

Application fee for James Scull for a dam - Meade County	\$700.00
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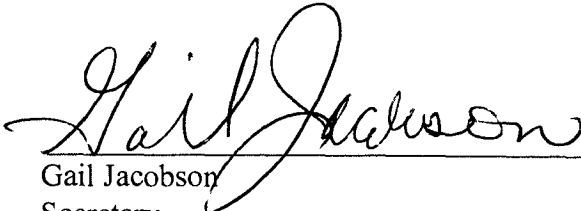
Application fee for Phillip Caslin for a dam - Lyman County	\$700.00
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(\$1000.00 application fee)

(\$400.00 licensing fee)

PLEASE PAY THIS AMOUNT:

\$1,400.00


Gail Jacobson
Secretary
Water Rights Program
(605) 773-3352



United States Department of the Interior



FISH AND WILDLIFE SERVICE

D.C. Booth Historic National Fish Hatchery

423 Hatchery Circle

Spearfish, SD 57783

Phone: 605-642-7730

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WATER RIGHTS
PROGRAM

July 27, 2012

PMB 2020

DENR-Water Rights

523 E. Capitol Ave.

Pierre, SD 57501

I am enclosing an application for a water rights permit. This permit is for an existing embankment pond that does not have an existing permit on it as far as I could find. The repair has been designed by Konechne Engineering and the design is also enclosed.

The U.S. Fish and Wildlife Service will be paying the fees, so please contact Norma Martin in our Brookings office (605) 697-2500 to arrange payment. Please call with any questions. Thank you.

Sincerely,

Steve Fairbairn

Private Lands Wildlife Biologist

1*****
SITES XEQ 07/11/2012 WATER RESOURCE SITE ANALYSIS COMPUTER PROGRAM
VER 2005.1.05 (USER MANUAL - DATED DECEMBER 2005)
TIME 15:55:11

***** 80-80 LIST OF INPUT DATA *****

SITES 01/01/2005 T. Scull SW26, T6N, R14E 0.9421875 H5
SAVMOV 0 101
SAVMOV 101 1 1
STRUCTURE

84 0
94 11.4
95 12.4
97 14.4

ENDTABLE

WSDATA 5A1 AC 82 603 6705 17
PDIRECT 1.6 3.00
POOLDATA ELEV 94 94 85 85 SC
PSINLET 1 12.56
PSDATA 1 74 12 .01 86
ASDATA 41 150 80 2 .08 2
ASINSURF 41 .03
ASINLET 41 0.0 0.0 80 0.0 3
180 8

ENDTABLE

ASEXSURF 41 .03
.65 0
3
2 0
.02

ENDTABLE

ASEXIT 41 N 120
BTMWIDTH FEET 40
GRAPHICS I
GO,DESIGN HL TYPE2 24 TYPE2378 24
SAVMOV 2 101 1
ENDJOB

***** MESSAGE - ALTERNATE STRUCTURE ID (S 1) BEING USED
SINCE USER DID NOT INPUT AN ID.

***** MESSAGE - ALTERNATE SUBWATERSHED ID (A) BEING USED SINCE
USER DID NOT INPUT AN ID.

***** MESSAGE - DRAINAGE AREA FROM WSDATA CONTROL BEING CONVERTED FROM
ACRES TO SQUARE MILES FOR COMPUTATION PURPOSES.

1SITES -----
XEQ 07/11/2012 T. Scull SW26, T6N, R14E WSID=
VER 2005.1.05 SUBW= A
TIME 15:55:11 SITE = S 1 PASS= 1 PART= 1

***** BASIC DATA *****

CLIMATE AREA - NOT DEFINED

DESIGN CLASS A1 = LT 3000.

STORM DISTRIBUTION-PSH 24 HOUR TYPE II RAINFALL DISTRIBUTION

STORM DISTRIBUTION AUX. -24 HOUR TYPE II RAINFALL DISTRIBUTION

PRECIP. - P-PS, 1-DAY	P-PS, 10-DAY	P-SD	P-FB	
1.60	0.00	0.00	3.00	
WSDATA - CN	DA-SM	TC/L	-/H	QRF
82.00	0.94	6705.00	17.00	0.00
SITEDATA- PERM POOL	CREST PS	FP SED	VALLEY FL	378?
94.00	94.00	0.00	85.00	YES
BASEFLOW	INITIAL EL	EXTRA VOL	SITE TYPE	
0.00	0.00	0.00	DESIGN	
PSDATA - NO. COND	COND L	DIA/W	-/H	
1.00	74.00	12.00	0.00	
PS N	KE	WEIR L	TW EL	
0.010	1.00	12.56	86.00	
2ND STG	ORF H	ORF L	START AUX.	
0.00	0.00	0.00	0.00	
ASCRESTS - AUX.1	AUX.2	AUX.3	AUX.4	AUX.5
0.00	0.00	0.00	0.00	0.00
AUX.DATA - REF.NO.	RETARD. Ci	TIE STATION	INLET LENGTH	
41	0.00	150.00	80	
AUX.DATA - INLET N	SIDE SLOPE	EXIT N	EXIT SLOPE	ACTUAL AUX?
0.030	2.00	0.030	0.080	NO
BTM WIDTH - BW1	BW2	BW3	BW4	BW5
ft 40.00	0.00	0.00	0.00	0.00

AUXILIARY SPILLWAY RATING DEVELOPED USING WSPVRT.

1SITES -----
XEQ 07/11/2012 T. Scull SW26, T6N, R14E WSID=
VER 2005.1.05 SUBW= A
TIME 15:55:11 SITE = S 1 PASS= 1 PART= 2

MESSAGE ---- Climatic Index changed from 0.0 to 1.0 for this run.

PERM POOL	94.00 FT	57.0 ACFT	11.40 AC	0.0 CFS
CREST PS	94.00 FT	57.0 ACFT	11.40 AC	0.0 CFS
SED ACCUM	94.00 FT	57.0 ACFT	11.40 AC	0.0 CFS
START ELEV	94.00 FT	57.0 ACFT	11.40 AC	0.0 CFS

INPUT DESIGN CLASS = A1 = LT 3000. PRODUCT.

NRCS-FBH D= 24.00 HR P= 3.00 IN Q= 1.38 IN DA= 0.94 SM
TC= 0.55 HR CN= 82.00 VOL= 69.3 ACFT

PEAK = 679.8 CFS, AT 12.2 HRS.

RATING TABLE DEVELOPED, SITE = S 1:
BY PROGRAM FOR PS AND AUX. SPILLWAYS
AUX. RATING USED WSPVRT METHOD.

RATING TABLE NUMBER 2

	ELEV. FEET	Q-TOTAL CFS	Q-PS CFS	Q-AUX. CFS	VOLUME AC-FT	AREA ACRE
1	94.00	0.00	0.00	0.00	57.00	11.40
2	94.10	1.24	1.24	0.00	58.15	11.50
3	94.20	3.51	3.51	0.00	59.31	11.60
4	94.30	6.45	6.45	0.00	60.48	11.70
FULL CONDUIT FLOW, ELEV = 94.40 FT						
5	94.40	9.92	9.92	0.00	61.66	11.80
6	94.48	9.99	9.99	0.00	62.55	11.88
7	94.55	10.04	10.04	0.00	63.44	11.95
8	94.63	10.08	10.08	0.00	64.34	12.03
9	94.70	10.12	10.12	0.00	65.24	12.10
10	94.78	10.17	10.17	0.00	66.14	12.18
11	94.85	10.21	10.21	0.00	67.06	12.25
12	94.93	10.25	10.25	0.00	67.98	12.33
13	95.00	10.30	10.30	0.00	68.90	12.40
14	95.10	12.89	10.35	2.53	70.14	12.50
15	95.20	15.48	10.41	5.07	71.40	12.60
16	95.38	22.31	10.51	11.80	73.68	12.78
17	95.60	39.76	10.63	29.12	76.52	13.00
18	96.00	90.20	10.85	79.35	81.80	13.40
19	96.50	178.03	11.12	166.91	88.62	13.90
20	97.00	291.04	11.38	279.66	95.70	14.40

SUMMARY OF AUXILIARY SPILLWAY SURFACE CONDITIONS USED IN COMPUTATIONS BY REACH

REACH	FROM STA (ft)	TO STA (ft)	SLOPE (%)	RETARDANCE CURVE INDEX@	VEGETAL COVER FACTOR	MAINT. CODE	ROOTING DEPTH (ft)	REACH LOCATION *
1	70.	150.	0.0	0.030	**	**	**	CREST
2	150.	270.	8.0	0.030	0.65	3	2.0	EXIT !

@ The program interprets retardance curve index entries of less than 1 as Manning's n values.

* Upper case indicates a reach of constructed spillway channel.

** The program does not use vegetal cover factor, maintenance code, and rooting depth for inlet and crest reaches in computations.

! Reach 2 used in computing exit channel velocities.

DRAWDOWN USING FREEBOARD STORM FOLLOWS, STARTING AT ELEVATION 95.00 FT.

DRAWDOWN (DDT) TEST 94.00 FT 57.0 ACFT 0.00 CFS
 CONTROL IS 0.000 DETENTION STORAGE

DRAWDOWN TIME = 1.83 DAYS, TO 0.0 CFS (LIMIT = 10.00 DAYS)

ROUTED RESULTS	BTM WIDTH FT	MAX ELEV FT	VOL-MAX ACFT	AREA-MAX AC	AUX.-HP FT	VOL-AUX. ACFT
NRCS-FBH	40.0	96.45	87.9	13.8	1.45	19.0

^^^^ NOTE -- ACTUAL Hp OF 1.45 RAISED TO MEET MIN. 378 CRITERIA.

PEAK - CFS DISCHARGE =	Q-PS	Q-AUX.	Q-TOT.
	11.1	157.3	168.4

	CRITICAL DEPTH FT	CRITICAL VELOCITY FT/SEC	CRITICAL SLOPE-Sc FT/FT	25% OF Q Sc FT/FT
AUXILIARY SPILLWAY ---	0.77	4.90	0.015	0.020

EROSIONALLY EFFECTIVE STRESS FOR STABILITY ANALYSIS OF AUX. EXIT CHANNEL
 (Refer to Ag. Handbook 667, Chapt. 3, for allowable stresses.)
 Aux. Spillway Discharge = 157. cfs; Bottom Width = 40. ft

REACH NO.	FROM STA	TO STA	SLOPE %	MANNING'S n	VELOCITY ft/s	TOTAL STRESS lb/ft^2	EFFECTIVE STRESS lb/ft^2
2	150.	270.	8.00	0.030	8.26	2.32	1.414

AUXILIARY SPILLWAY DURATION FLOW =	15.6 HOURS
ATTACK, OE/B =	1.1 ACFT/FT

***** MESSAGE - NHCP378 CRITERIA USED BUT AUXILIARY SPILLWAY RATING NOT
 BASED ON ASFILE RATINGS.

EXIT CHANNEL FLOW SUPERCRITICAL: MAX VELOCITY= 8.3 FT/SEC
 EXIT SLOPE = 0.080 FT/FT
 FLOW DEPTH = 0.5 FT

>>>>> NHCP378 RUN - MINIMUM FLOW IN AUX. SPILLWAY FROM TR60
 USING FORMULA WITHOUT 200 CFS MINIMUM LIMIT (230. CFS).

ROUTED RESULTS	BTM WIDTH FT	MAX ELEV FT	VOL-MAX ACFT	AREA-MAX AC	AUX.-HP FT	VOL-AUX. ACFT
MIN. AUX.	40.0	96.78	92.6	14.2	1.78	23.7

^^^^ NOTE -- ACTUAL Hp OF 1.78 RAISED TO MEET MIN. 378 CRITERIA.

PEAK - CFS DISCHARGE =	Q-PS	Q-AUX.	Q-TOT.
	11.3	230.1	241.4

	CRITICAL DEPTH FT	CRITICAL VELOCITY FT/SEC	CRITICAL SLOPE-Sc FT/FT	25% OF Q Sc FT/FT
AUXILIARY				

SPILLWAY --- 0.99 5.52 0.014 0.018

>>>>> NHCP378 RUN - MINIMUM DEPTH, CREST AUX. TO TOP OF DAM IS 2.00 FT.
NEW TOP OF DAM ELEVATION = 97.00.

ROUTED RESULTS	BTM WIDTH FT	MAX ELEV FT	VOL-MAX ACFT	AREA-MAX AC	AUX.HP FT	VOL-AUX. ACFT
MINIMUM AUX.	40.0	97.00	95.7	14.4	2.00	26.8
PEAK - CFS DISCHARGES =		Q-PS 11.4	Q-AUX. 279.7	Q-TOT. 291.0		
		CRITICAL DEPTH	CRITICAL VELOCITY	CRITICAL SLOPE-Sc	25% OF Q Sc	
AUXILIARY SPILLWAY ---		FT 1.13	FT/SEC 5.87	FT/FT 0.013	FT/FT 0.017	

>>>>> NHCP378 RUN - MINIMUM DEPTH, DESIGN FLOW TO TOP OF DAM; 1.00 FT REQUIRED
FOR THIS PASS. NEW TOP OF DAM ELEVATION = 97.45.

ROUTED RESULTS	BTM WIDTH FT	MAX ELEV FT	VOL-MAX ACFT	AREA-MAX AC	AUX.HP FT	VOL-AUX. ACFT
MINIMUM AUX.	40.0	97.45	102.0	14.8	2.43	33.1
PEAK - CFS DISCHARGES =		Q-PS 11.6	Q-AUX. 380.3	Q-TOT. 391.9		
		CRITICAL DEPTH	CRITICAL VELOCITY	CRITICAL SLOPE-Sc	25% OF Q Sc	
AUXILIARY SPILLWAY ---		FT 1.38	FT/SEC 6.46	FT/FT 0.012	FT/FT 0.016	

***** WARNING - SOLUTION EXCEEDED MAX. INPUT ELEVATION (97.00) BY 0.43 FT.

Inflow Hyd 1 PSH-Peak = 10.27 CFS at 17.69 hrs., Location Point

Inflow Hyd 1 FBH-Peak = 168.42 CFS at 12.86 hrs., Location Point
HYDOUT 1

1SITES.....JOB NO. 1 COMPLETE.

T. Scull SW26, T6N, R14E

0 SUBWATERSHED(S) ANALYZED.

1 STRUCTURE(S) ANALYZED.

2 HYDROGRAPHS ROUTED AT LOWEST SITE.

0 TRIALS TO OBTAIN BOTTOM WIDTH FOR SPECIFIED STRESS OR VELOCITY.

SITES.....COMPUTATIONS COMPLETE

>>>										<<<
	SITE ID	SUBWS ID	SUBWS DA (SQ MI)	CURVE NO.	TC (HRS)	TOTAL DA (SQ MI)	TYPE DESIGN	STRUC CLASS		

	S 1	A	0.94	82.	0.55	0.94	378CR	A1		
PASS DIA./										
NO.	WIDTH	AUX.CREST ELEV	BTM. WIDTH	MAX. HP	MAX. ELEV	EMB. VOL.	INTEGR.* DIST.	EXIT* VEL.	TYPE HYD	
	(IN/FT)	(FT)	(FT)	(FT)	(FT)	(CY)	(FT)	(FT/SEC)		

1	12.0	95.0	40.0	2.5	97.4	0.	0.	8.3	MIN. AUX.	

* INTEGRITY DIST. AND EXIT VEL. ARE BASED ON THE ROUTED HYDROGRAPH
AND WILL NOT RELATE TO THE MAX. ELEV. (TOP OF DAM),
WHICH IS SET BY MINIMUM DESIGN CRITERIA.

SITES.....SUMMARY TABLE 1 COMPLETED.

NRCS SITES VERSION 2005.1.05 ,01/01/2005
FILES

INPUT = C:\scull\48-12.D2C
OUTPUT = C:\scull\48-12.OUT
DATED 07/11/2012 15:55:11

GRAPHICS FILES GENERATED

OPTION "L" = C:\scull\48-12.DRG DATED 07/11/2012 15:55:11
OPTION "P" = C:\scull\48-12.DHY DATED 07/11/2012 15:55:11
OPTION "E" = C:\scull\48-12.DEM DATED 07/11/2012 15:55:11

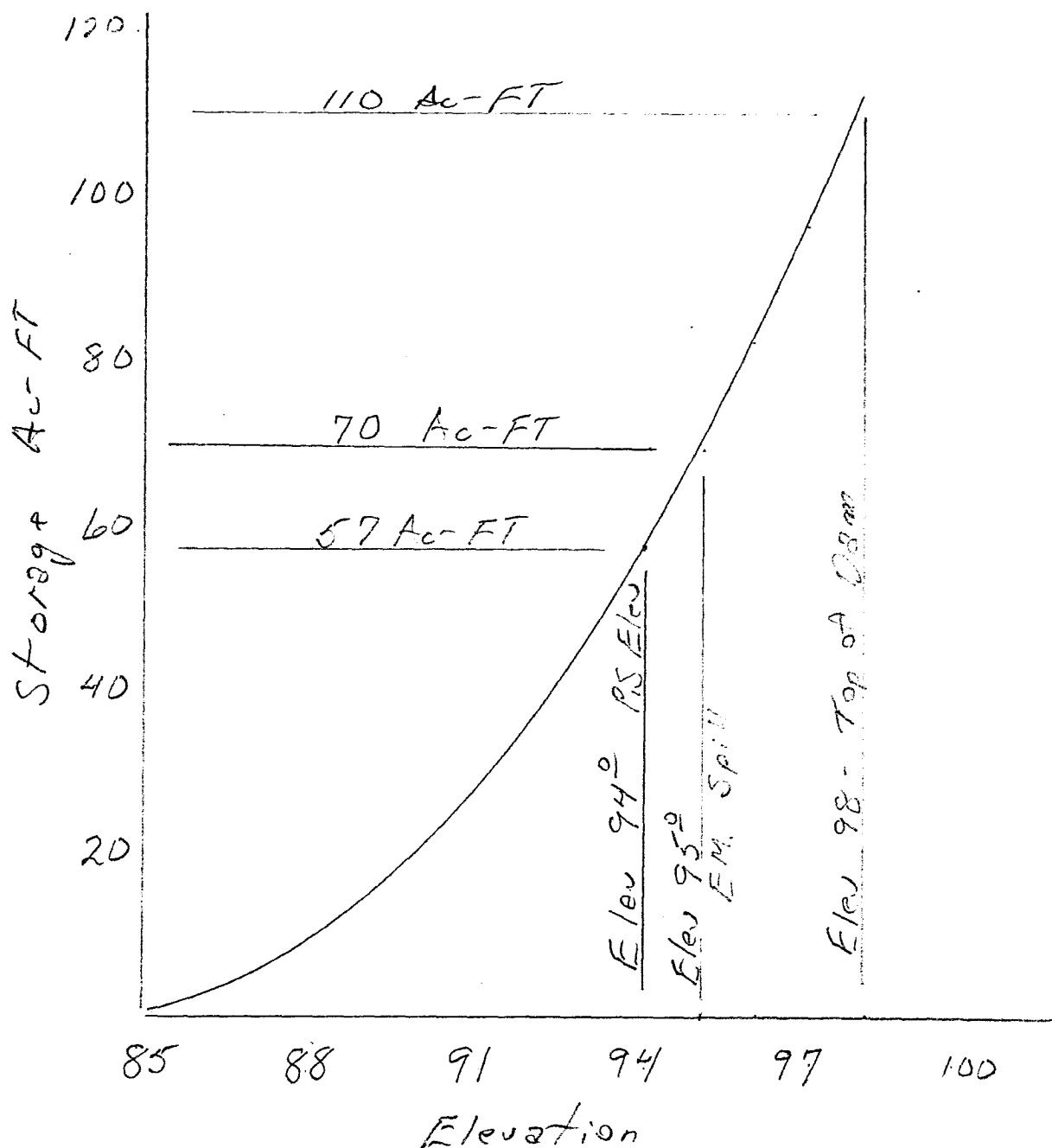
COMPUTATION SHEET

BY	DATE	PROJECT	SHEET ____ OF ____
CHKD BY	DATE	FEATURE <i>T. Scull</i>	
DETAILS <i>SW26, T6N, R14E Meade Co.</i>			

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JUL 30 2012

WATER RIGHTS
PROGRAM



DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF <i>A_c-ft</i>	EMERG. SPLWY. CAPACITY	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC. FT.	25-YR.	C. F. S.	FEET	ACRES	AC. FT.	AC. FT.
603	25	69	380	10	11.4	—	57

LOCATION

[illegible]

Since minimum cost construction inspection is scheduled, it is necessary to hire a competent contractor.

concrete Base as furnished by Cretex Concrete Products
or equal.



SKETCH PLAN OF DAM AND RESERVOIR AREA

REFERENCE: GUIDE PLAN NO. 1.0

SD-2 Clearing
SD-7s Earth Fill
SD-9 Drain Fill
SD-17 Metal Fabrication
SD-19 PVC

OPERATOR: T Scull

CONSERVATION DISTRICT: _____

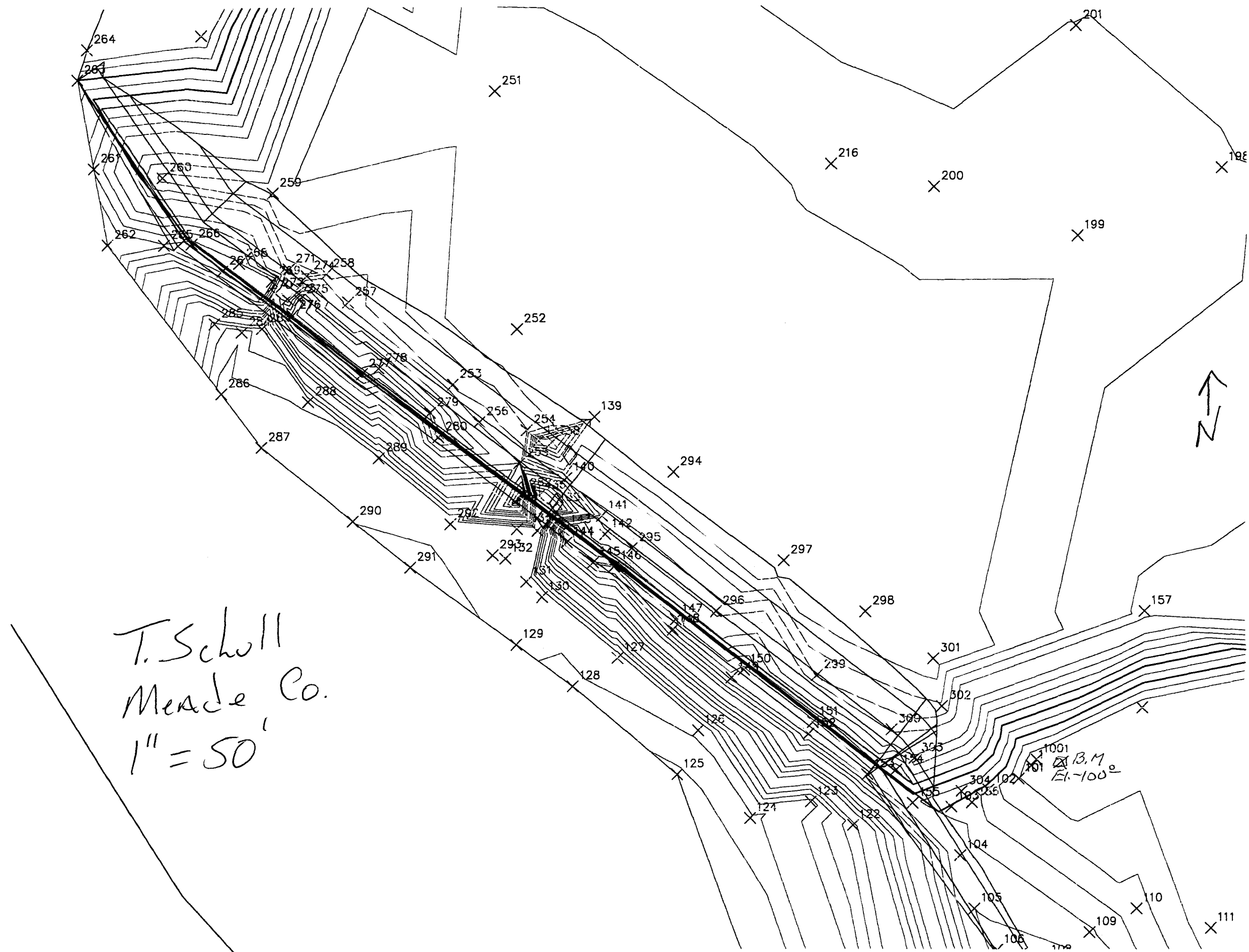
Class "A" Hazard

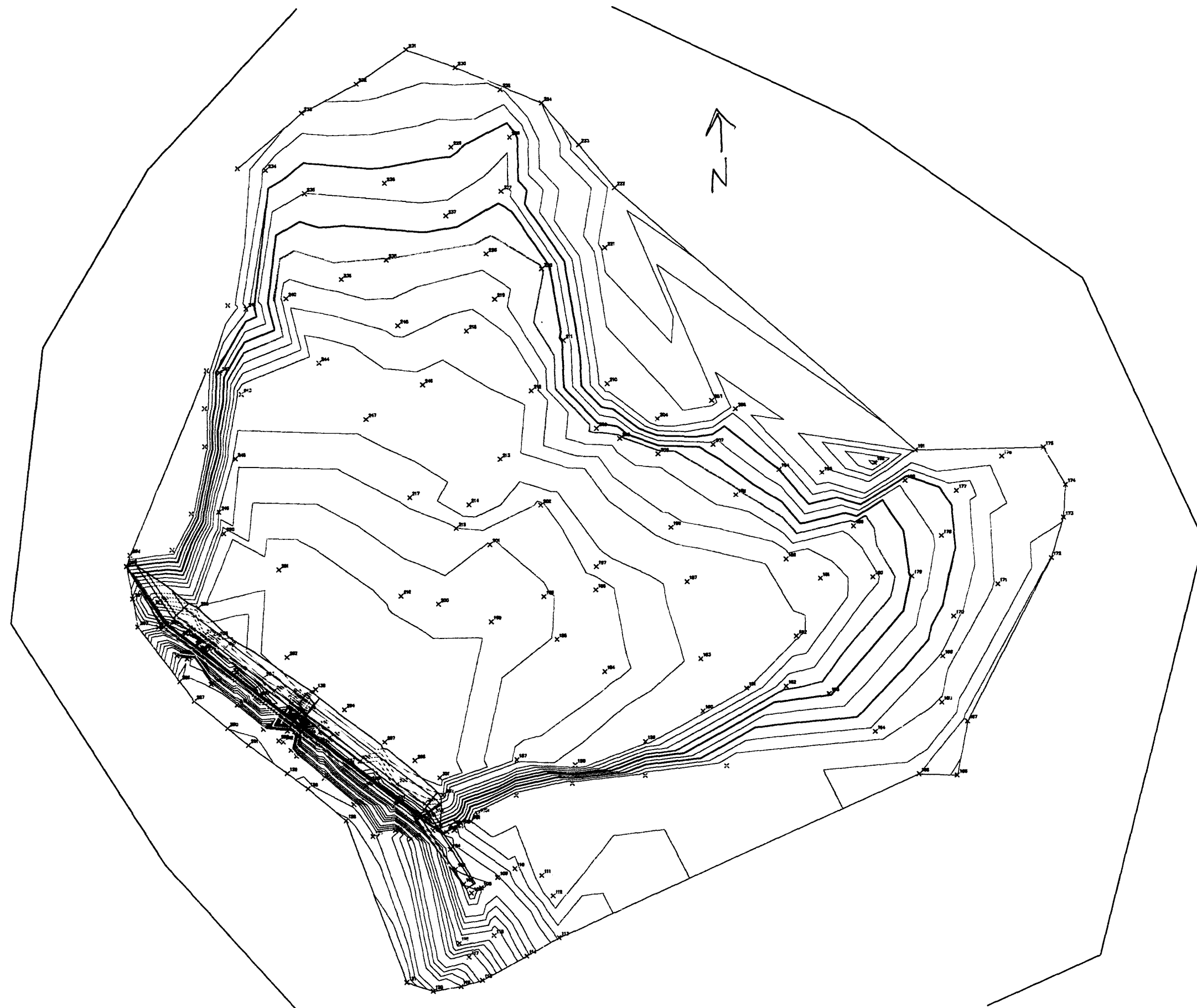
Designed _____	NOTE Approved by _____ Title _____ _____
Drawn _____	
Traced _____	Title _____ Drawing No. _____
Checked _____	

Sheet _____
No _____
of _____

JOB PLAN NO. 1.0

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





T. Scholl
Mende Co.
1" = 150'

Locate principal spillway pipe *as directed by Technician*
at C of dam sta. $\text{ } + \text{ }$ at
an angle of to the C of
the dam. Trash rack and b
not shown. See
no. 514

Trash rack and baffle plate
not shown. See job plan
no. 5262

Top of dam after
settlement El. 98⁰

Note: Allowance for settlement 5 %

Emergency spillway El. 95⁰

Principal spillway El. 94⁰ —→

Berm, if required _____: 1
slope normal to $\odot$ of
dam _____

Concrete Pier El. 88
4'x4'

3:1 slope normal
to $\mathbb{C}$ of dam —

4/8" dia riser, see
job plan no. DK-10

92°

Antiseep collars sand seep collar
J.P. 3.8

✓ 3 : slope normal to $\mathbb{C}$ of dam

2.7 % gr.

74' of 12" dia. pipe PVC SDR-26

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

SPECIFICATION NOTES

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

12" dia PVC to be

SDR-X6

TABLE OF QUANTITIES

[illegible]

APPLICABLE STANDARD S.C.S. SPECIFICATIONS

Diagram of a prefabricated elbow. The elbow is shown with a horizontal section of length 6' and a vertical section of height 6'. The elevation of the top of the horizontal section is 86' and the elevation of the bottom of the vertical section is 85'. The elbow is labeled "Prefabricated elbow" and "6'". The elevation of the top of the horizontal section is 86' and the elevation of the bottom of the vertical section is 85'.

OUTLET DETAIL WITHOUT PIPE SUPPORT

Prefabricated elbow _____

Pipe support, see job plan no. _____

El. _____

El. _____

% gr.

El. _____

OUTLET DETAIL WITH PIPE SUPPORT

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

LOCATION

CORRUGATED METAL PIPE
DROP INLET PRINCIPAL SPILLWAY

OPERATOR T. Scull

CONSERVATION DISTRICT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Date _____

Designed _____

Drawn.....

Traced

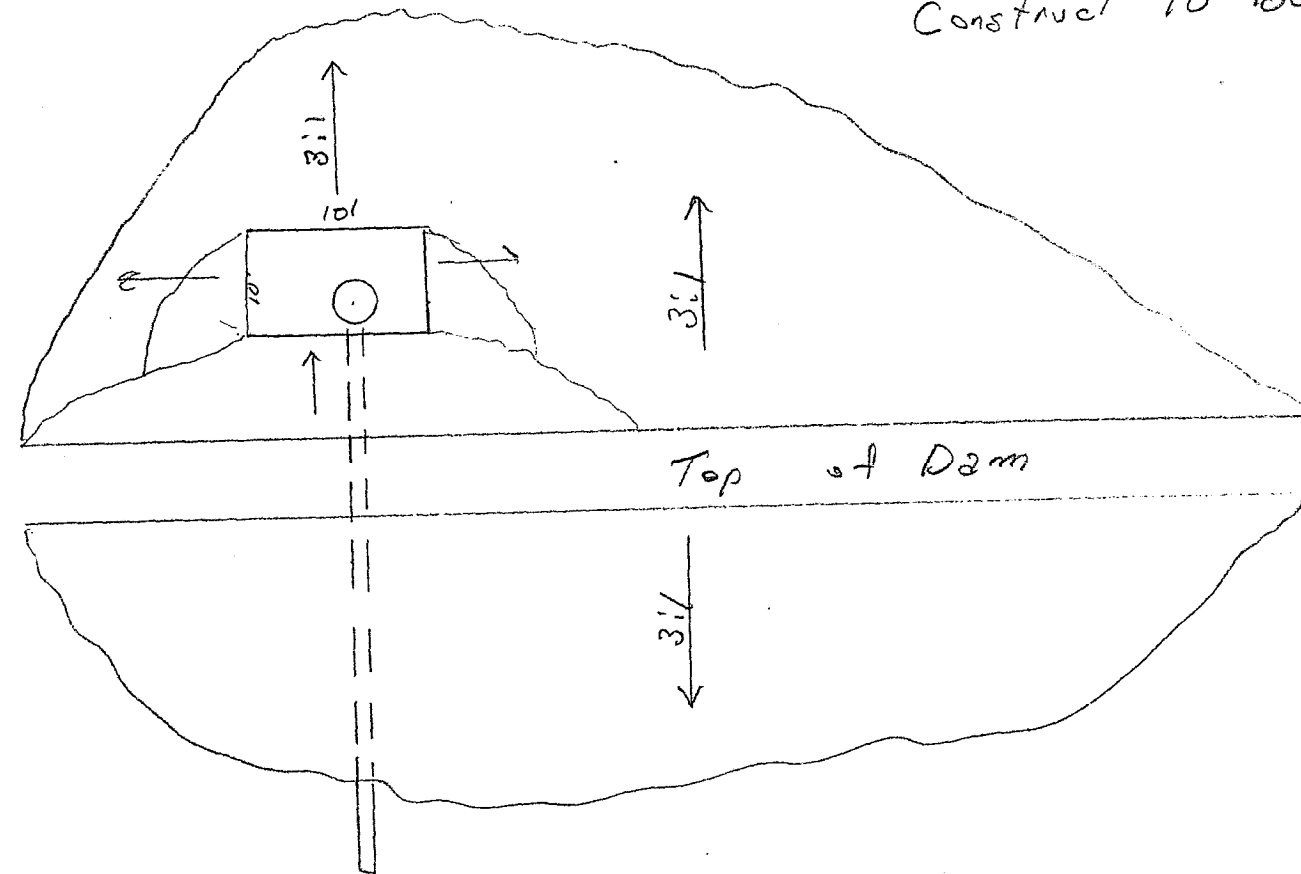
Checked _____

Approved by.....

Sheet	Drawing No
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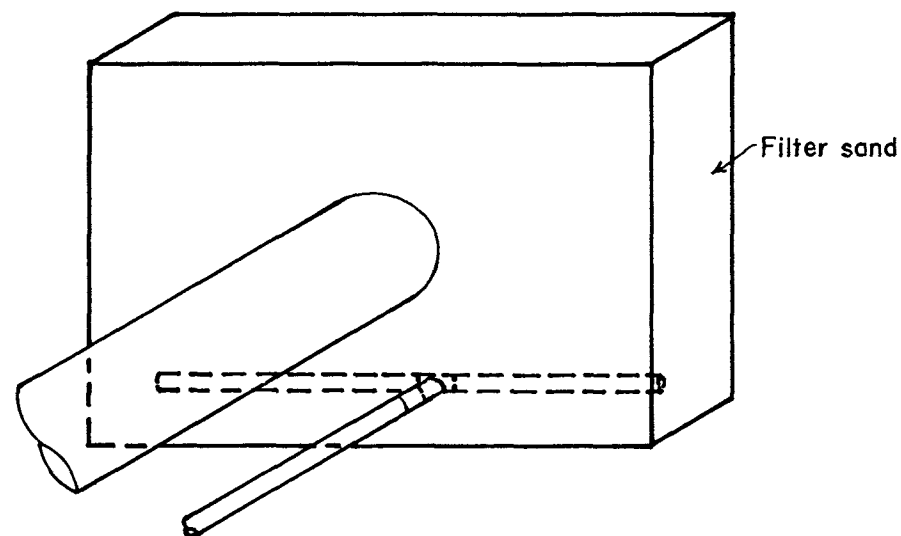
No
p'

Construct 10' Berm at Riser

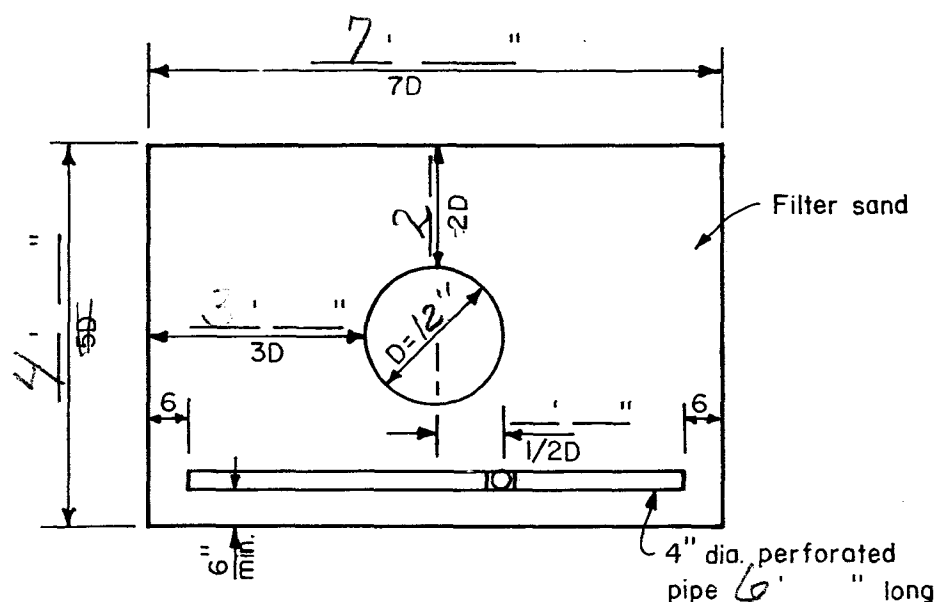


PLAN VIEW

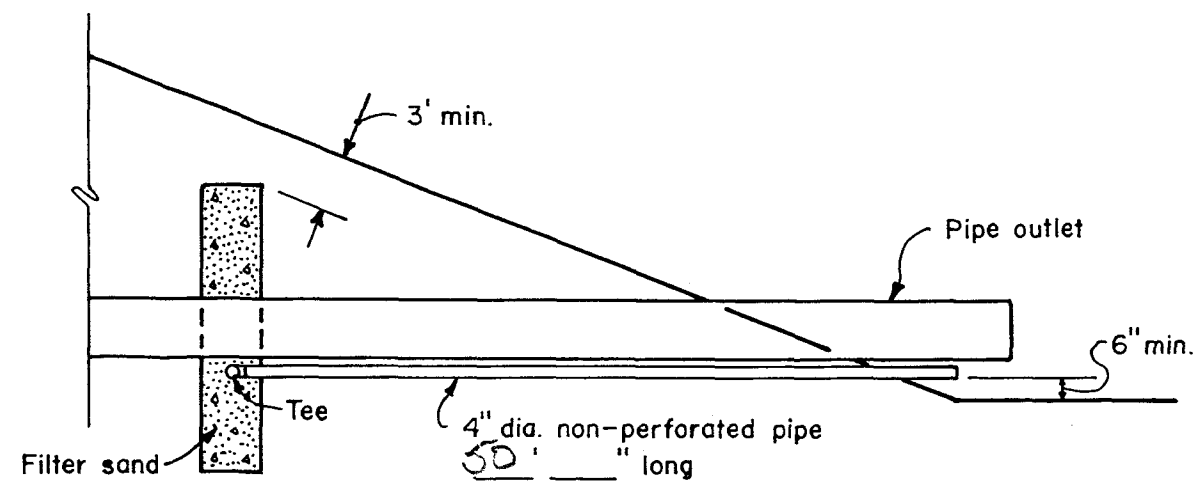
OK-1 T. Scull



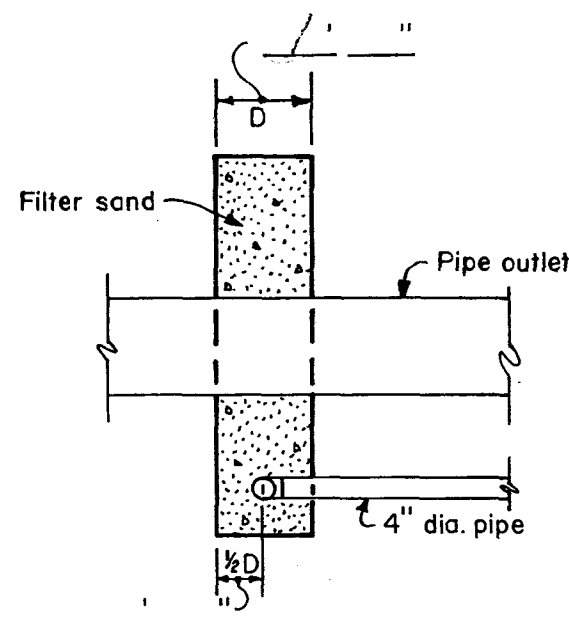
ISOMETRIC VIEW



UPSTREAM VIEW



OUTLET DETAIL



SIDE VIEW

FILTER GRADATION

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

see spec 10-9 / 105 yd.

Sec. _____, T. _____, R. _____

_____ County

LOCATION

SAND ANTISEEP COLLAR

OPERATOR T. Scull

CONSERVATION DISTRICT _____

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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

NOTE:

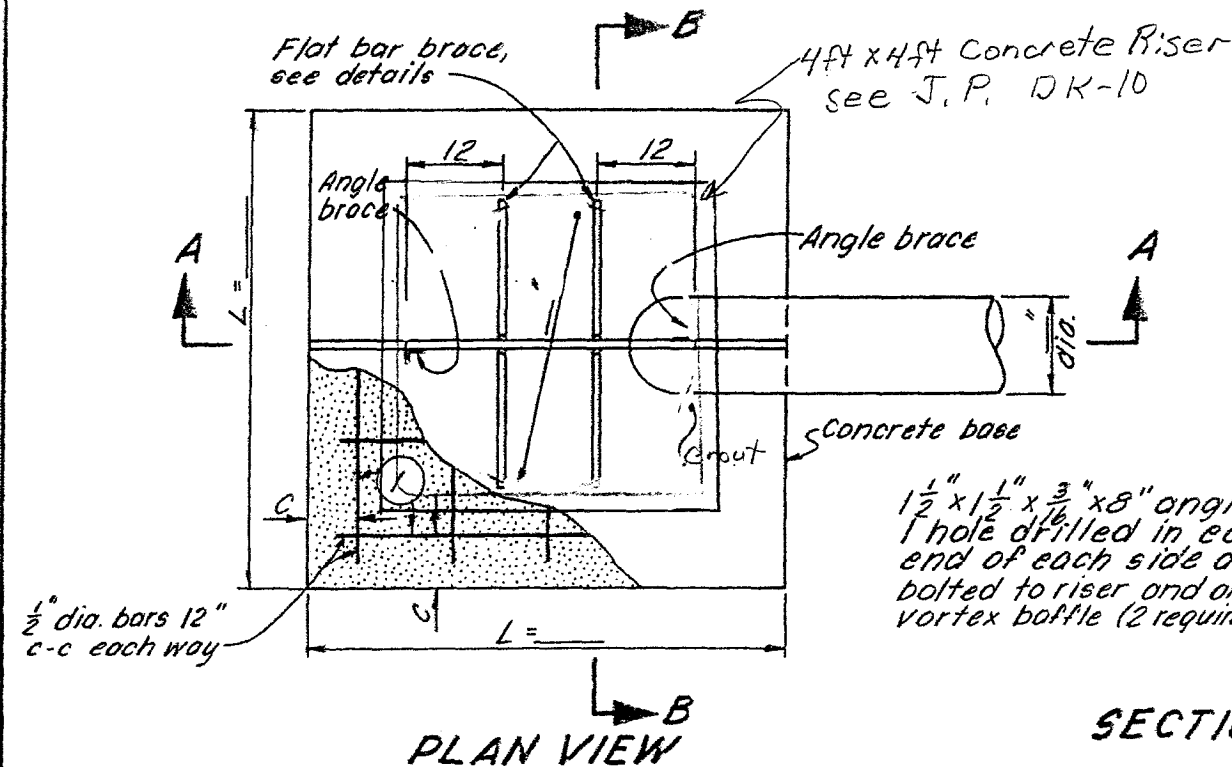
1. THE 4" DIA. PIPE SHALL BE ASTM D1785, SCHEDULE 40, PVC.
2. PROVIDE AN ANIMAL GUARD ON DRAIN OUTLET PIPE. DRILL 2, 1/2" DIA. HOLES, ON $\pm$ 6" FROM END OF PIPE AND PLACE A 3/8" DIA., 5 1/2" LONG GALVANIZED STEEL BOLT THRU THEM AND SECURE WITH A NUT (PLACE BOLT HORIZONTAL).

JOB PLAN NO. 3.8

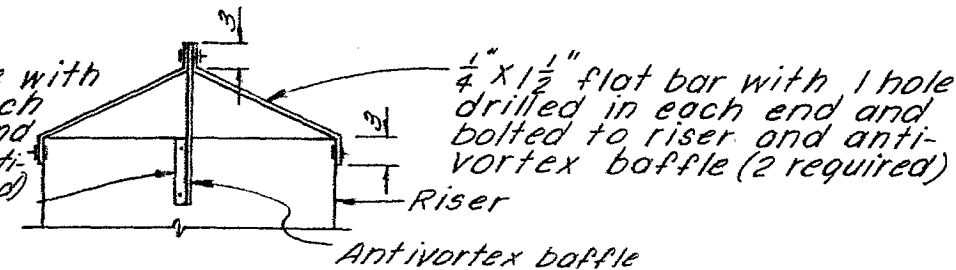
STEEL SCHEDULE AND CONCRETE QUANTITIES

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

Use this schedule if riser base is poured in the field



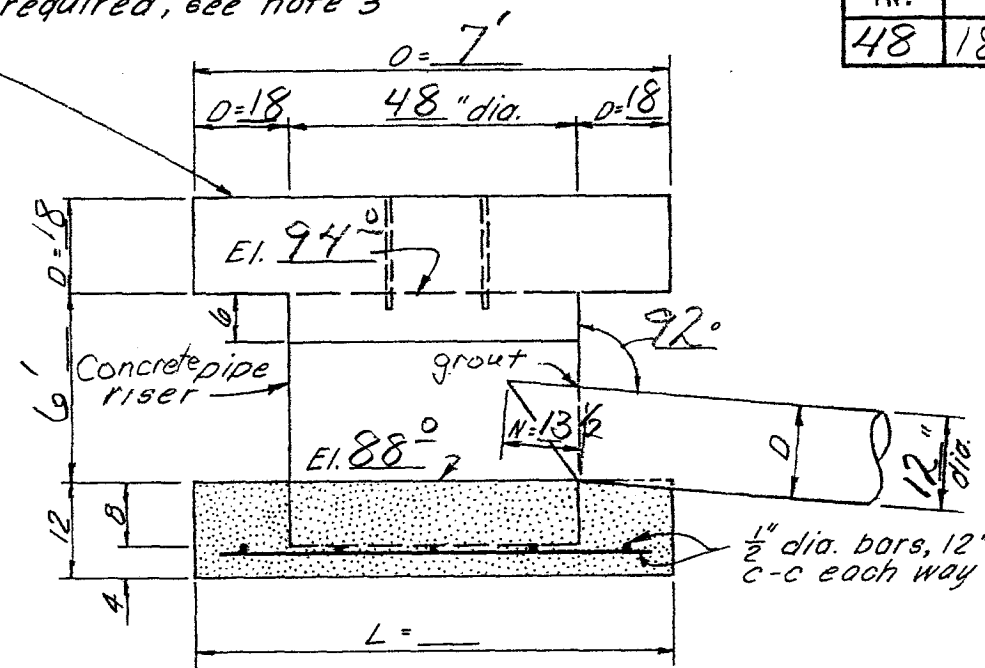
1 1/2" x 1 1/2" x 3/16" x 8" angle with 1 hole drilled in each end of each side and bolted to riser and antivortex baffle (2 required)



STRUCTURAL STEEL AND ANTIVORTEX BAFFLE QUANTITIES

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

Antivortex baffle required, 0.138" thick, if trash rack is required, see note 3



NOTES:

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

RISER AND HOOD INLET COMBINATION

OPERATOR: T. Scull

CONSERVATION DISTRICT: _____

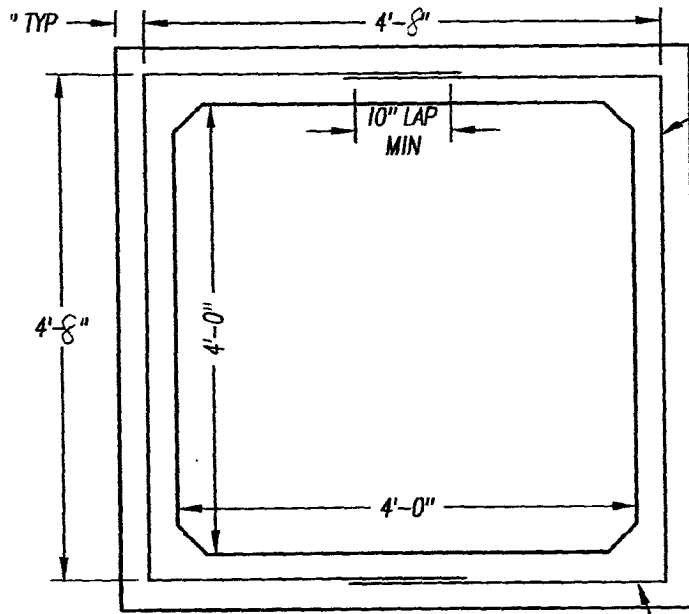
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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

REFERENCE: GUIDE PLAN NO. 5.4

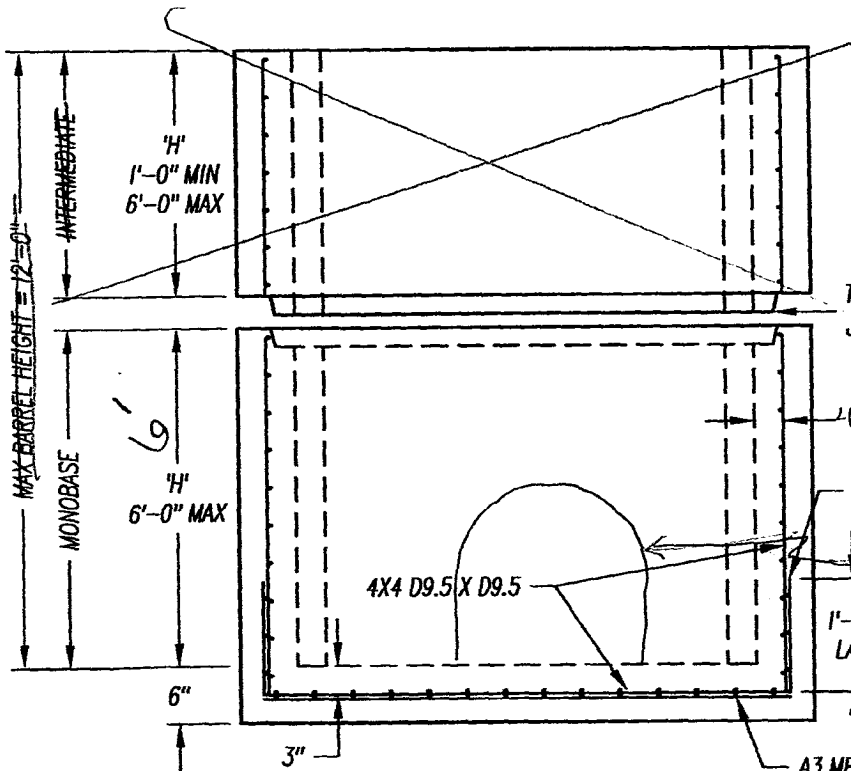
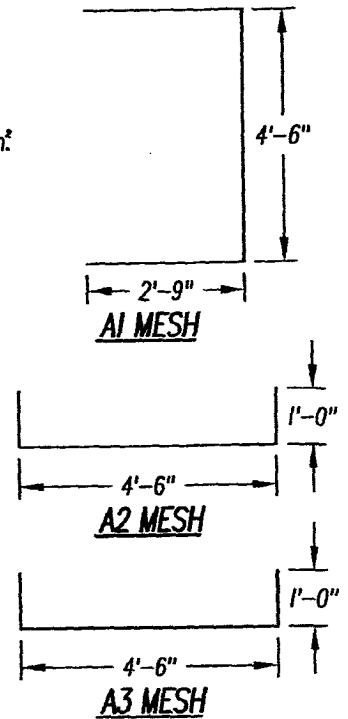
JOB PLAN NO. 5.4

5, N-29, 073.5-40



PLAN VIEW

4X4 D9.5 X D9.5
VERTICAL AREA OF STEEL
IS 0.28 in², HORIZONTAL
AREA OF STEEL IS 0.28 in²



ELEVATION VIEW

TONGUE / GROOVE
JOINT (TYP)

Opening as required

REINFORCING SCHEDULE

MARK	SIZE	TYPE	# REQ'D	DIMENSIONS
A1	4X4 D9.5/D9.5	BENT	2	10'-0" X H
A2	4X4 D9.5/D9.5	BENT	1	6'-6" X 4'-6"
A3	4X4 D9.5/D9.5	BENT	1	6'-6" X 4'-6"

MONO
ONLY

1. Reinforcing per Cretex West Standard Design.
2. 4,000 psi Air Entrained Concrete
3. * Reduce total quantities of concrete by the amount of concrete displaced by the pipe. The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.

ESTIMATED QUANTITIES

ITEM	UNIT	CONSTANT QTY.	VARIABLE QTY.
*CLASS M6 CONCRETE	CuYd	0.469	0.338*H
REINFORCING STEEL	Lb	114	38.80*H

FOR INTERMEDIATE SECTIONS - IGNORE CONSTANT QTY.

Cretex
Concrete Products
West, Inc.

OFFICES IN:

BISMARCK

HELENA

RAPID CITY

SCALE NONE

TITLE

T. Scott
4 X 4 INLET

DATE 11/17/05

DRN BY CLH

STANDARD DESIGN

RS#

CUSTOMER

REV DATE

DWG NAME

DK-10

Water Permit Application No. 1929-1

James Scull

Top of Dam Elev. - 98
 2nd Spillway Elev. - 95
 P. Spillway Elev. - 94
 Dis Emb. Toe Elev. - 84

Cat. 3 - Low Hazard Dam

Ht. = 14 ft.

Normal Storage Capacity - 57 Ac-Ft
 Int. Storage Capacity - 70
 Max Storage Capacity - 110

Int. Capacity x Eff. Ht. = $70 \times 10 = 700 < 3000 \therefore$ 25 year
Minimum Spillway Design

From USGS WRI 80-80 "Tech. for Est. Flood Peaks ... in SD"
 $DA = 603 \text{ Ac} = 0.94 \text{ mi}^2$ Slope = 100'/mi $S_i = 1.90$

$$Q_{100} = 83.4 A^{.60} S^{.44} S_i^{-.72}$$

$$= 83.4 (0.94)^{.60} (100)^{.44} (1.90)^{-.72}$$

$$= 83.4 (.9636) (7.5858) (.6299)$$

$$= \underline{380 \text{ cfs}}$$

$$Q_{100} = 132 A^{.65} S^{.46} S_i^{-.67}$$

$$= 132 (0.94)^{.65} (100)^{.46} (1.90)^{-.67}$$

$$= 132 (.9606) (8.376) (.6505)$$

$$= \underline{686 \text{ cfs}}$$

Secondary Spillway Capacity

$$Q = CLH^{3/2} \quad C = 2.6$$

$$= (2.6)(40)(3)^{1.5} \quad L = 40$$

$$= \underline{540 \text{ cfs}} \quad H = 3$$

Section 74:07:08:09

1. Topo Map - 015
2. Dam Axis Profile - 015
3. Dam Max X-Sec. - 015
4. Area Capacity - 015
5. Outlet Details - 015
6. Spillway Rating - 015
7. Spillway Details - 015
8. Specs - Std NRCs - 015
9. EPP - N/A Cat. 3 - 015

NRCs Annual Yield

$DA = 603 \text{ CN} = 82 \text{ ISO} = 1/2$

$$80\% \text{ chance} = 0.23$$

$$0.23 \times 603/12 = \underline{12 \text{ Ac-Ft}}$$

$$50\% \text{ chance} = 0.6$$

$$0.6 \times 603/12 = \underline{30 \text{ Ac-Ft}}$$

$$10\% \text{ chance} = 2.3$$

$$2.3 \times 603/12 = \underline{115 \text{ Ac-Ft}}$$



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

August 9, 2012

James Scull
PO Box 7636
Rapid City, SD 57709

Dear Mr. Scull:

We have reviewed the plans and specifications for your dam project located in the SW ¼ SW ¼ of Sec. 26-T6N-R14W, in Meade County. The plans and specifications for the reconstruction of the existing dam are approved. Approval of the plans and specifications does not authorize reconstruction of the dam. The reconstruction of the dam may not begin until Water Permit No. 1929-1 is approved.

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

The dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 14 ft. and a normal storage capacity of 57 acre-feet and a maximum storage capacity of 110 acre-feet.

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

Sincerely,

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

c: Steve Fairbairn, USFWS
Dave Konechne



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1929-1, James Scull**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 1929-1, James Scull, PO box 7636, Rapid City SD 57709.

The Chief Engineer is recommending APPROVAL of Application No. 1929-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Water Permit No. 1929-1 authorizes an impoundment with a storage capacity of 57 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

See report on application for additional information.

Garland Erbele, Chief Engineer
August 9, 2012

REPORT ON
WATER PERMIT APPLICATION No. 1929-1
James Scull
August 3, 2012

Water Permit Application No. 1929-1 has been filed by James Scull to impound 57 acre-feet of water from runoff by reconstructing an existing dam located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 26-T6N-R14E, in Meade County. The application also requests impoundment of sufficient water to maintain water to the outlet elevation. The water will be used for fish and wildlife production and livestock water purposes.

Discussion:

The dam will be classified as a small size, Category 3, Low Hazard dam. The dam has been designed by Konechne Engineering. The plans and specifications have been reviewed and will be approved; however, reconstruction of the dam can not begin until Water Permit Application No. 1929-1 is approved.

The dam will be 14 feet high with a normal storage capacity of 57 acre-feet with a reservoir level at the primary spillway elevation, and a maximum storage capacity of 110 acre-feet with a reservoir level at the top of dam elevation. A dam of this size and hazard classification is required to have a minimum spillway design capable of passing a 25-year frequency event.

The dam has a drainage area of 603 acres or 0.94 square miles. The dam is designed to have a 4 ft. by 4ft. concrete box riser with a 12 inch PVC barrel and 4.0 feet of freeboard as the primary spillway, and a 40 foot wide earthcut secondary spillway with 3 feet of freeboard. A 25 year frequency event produces a peak runoff of approximately 380 cfs and a 100 year frequency event produces a peak runoff of approximately 686 cfs. The earthcut spillway will have a capacity of approximately 540 cfs.

The annual yield for this drainage area with an 80 percent chance of occurrence, or 8 out of 10 years, is expected to be 12 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 30 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 115 acre-feet.

The Scull Dam will be located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 26-T6N-R14E on an unnamed tributary to Badlands Creek, about a one-quarter mile upstream of the confluence of the unnamed tributary and Badlands Creek, and about 2 miles upstream of the confluence of Badlands Creek and the Belle Fourche River. There are no existing Water Permits/Rights filed on the unnamed tributary or Badlands Creek between the proposed dam and the Belle Fourche River.

Conclusions:

1. Water Permit Application No. 1929-1 should be approved since unappropriated water is available and approval should not have any adverse effect on existing Water Permits/Rights.
2. If approved, the low flow bypass requirement for domestic use should be a qualification on Water Permit Application No. 1929-1.



Timothy G. Schaal, P.E.

Natural Resources Engineer IV

RECEIVED

SEP 17 2012

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA

County of Pennington

SS:

Aug. 22
L20717600

NOTICE OF APPLICATION NO. 1929-1 to Appropriate Water

Notice is given that James Scull, PO Box 7636, Rapid City SD 57709 has filed an application for a water permit to impound 57 acre-feet of water from runoff by reconstructing an existing dam located in the SW 1/4 SW 1/4 Section 26 with water impounded in the SW 1/4 Section 26; all in T6N-R14E. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation purposes and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1929-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

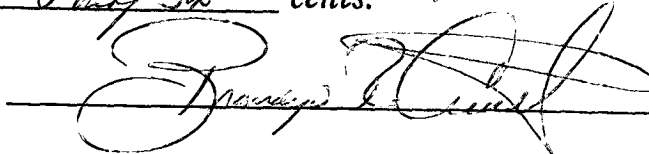
Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 4, 2012.

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

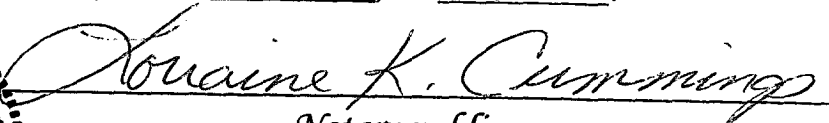
(Published one time at the total approximate cost of \$53.36).

Brandyn Crawford being first duly sworn, upon his/her oath says:
That he/she is now and was at all time hereinafter mentioned, an employee of the RAPID CITY JOURNAL, a corporation of Rapid City, South Dakota, the owner and publisher of the RAPID CITY JOURNAL, a legal and daily newspaper printed and published in Rapid City, in said County of Pennington, and has full and personal knowledge of all the facts herein stated as follows: that said newspaper is and at all of the times herein mentioned has been a legal and daily newspaper with a bonafide paid circulation of at least Two Hundred copies daily, and has been printed and published in the English language, at and within an office maintained by the owner and publisher thereof, at Rapid City, in said Pennington County, and has been admitted to the United States mail under the second class mailing privilege for at least one year prior to the publication herein mentioned; that the advertisement, a printed copy of which, taken from said Rapid City Journal, the paper in which the same was published, is attached to this sheet and made a part of this affidavit, was published in said paper once each

week for one successive
week, the first publication there of being on the
22nd day of August that the fees charged for
the publication there of are forty five dollars
and thirty six cents.



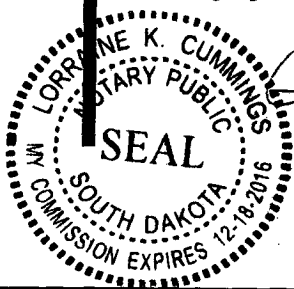
Subscribed and sworn to before me this twelfth
day of September, 2012.



Notary public

Dec. 18, 2016

My commission expires



RECEIVED

SEP 14 2012

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA
COUNTY OF MEADE

Pam Buhler, being duly sworn, says: That the Meade County Times Tribune during all times hereinafter mentioned, is a legal newspaper as defined in SI as amended, published in Sturgis, Meade County, South Dakota, by Lee Ent affidavit is and during all of said times, is employed as an Office Manager b publisher of such newspaper and has personal knowledge of the facts stated affidavit, that the notice, order or advertisement, a printed copy which is att published in said newspaper for successive issues, bearing the following date

<u>Aug 22</u>	201	<u>2</u>	201
	201		201
	201		201
	201		201
	201		201

that the full amount of the fee charged for publishing the same, to-wit, the su \$ 22.84, insures solely to the benefit of the publisher of said newspaper agreement or understanding for the division of the fee has been made with ar and that no part of the fee has been agreed to be paid to any other person.

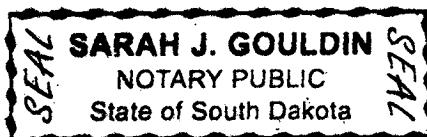
Pam Buhler

Subscribed and sworn to before me this

11th day of September 2012
Sarah J. Gouldin

Notary Public, South Dakota
My Comm. Expires: _____

My Commission Expires
September 11, 2014



Account No. # 20716679
Total Amount \$ 22.84

NOTICE OF APPLICATION NO. 1929-1 to Appropriate Water

Notice is given that James Scull, PO Box 7636, Rapid City SD 57709 has filed an application for a water permit to impound 57 acre-feet of water from runoff by reconstructing an existing dam located in the SW ¼ SW ¼ Section 26 with water impounded in the SW ¼ Section 26; all in T6N-R14E. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation purposes and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1929-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E

Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 4, 2012.

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

Department of Environment and Natural Resources.

Published once at the total approximate cost of \$22.84.

Published Wed., Aug 22,
2012
Meade County Times
Tribune



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

August 10, 2012

Rapid City Journal
PO Box 450
Rapid City SD 57709

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 1929-1 to Appropriate Water. Please publish the notice once on August 22, 2012. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is James Scull, PO Box 7636, Rapid City SD 57709 (Ph # 605-342-2379).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

August 10, 2012

Meade County Times-Tribune
1022 Main St
Sturgis SD 57785

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Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATE, CONTACT
THE NEWSPAPER(S) RIGHT AWAY.

August 10, 2012

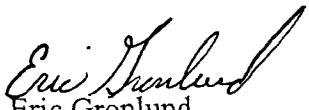
James Scull
PO Box 7636
Rapid City SD 57709

Dear Mr. Scull:

Water Permit Application No. 1929-1 for livestock watering use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Meade County Times-Tribune printed at Sturgis SD (Ph # 605-394-8300) and the Rapid City Journal printed at Rapid City SD (Ph # 605-347-2503). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,


Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish the Notice on August 22, 2012. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 1929-1 to Appropriate Water

Notice is given that James Scull, PO Box 7636, Rapid City SD 57709 has filed an application for a water permit to impound 57 acre-feet of water from runoff by reconstructing an existing dam located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 26 with water impounded in the SW $\frac{1}{4}$ Section 26; all in T6N-R14E. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation purposes and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1929-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 4, 2012 .

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

OCT 24 2012

James Scull
PO Box 7636
Rapid City SD 57709

Dear Mr. Scull:

Enclosed is Water Permit No. 1929-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

RECEIVED

MAR 27 2013

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 3/23/13TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181FROM: MAGIC CANYON LP - JAMES SCULL
(name)
PO Box 7636
(address)
RAPID CITY, SD 57202 605-390-7080 (cell)
(city, state, zip) (phone)

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

Water Permit No. 1929-1 states that the water use system is to be constructed by SEP 4, 2017, and water is to be put to beneficial use by SEP 4, 2021.
(date) (date)

The water use system was completed on Dec 31, 2012.
(date)

Applying the water to beneficial use was completed on MAR 1, 2013.
(date)

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

James Scull
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

March 27, 2013

1929-1

James Scull
Magic Canyon LP
PO Box 7636
Rapid City SD 57702

Dear Sir:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the water use system authorized by Water Permit No. 1929-1.

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

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

Sincerely,

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

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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 1929-1

I have this day, **September 28, 2016**, made a thorough examination of the water use system constructed by **James Scull, PO Box 7636, Rapid City, So. Dak. 57709** of Permit No. **1929-1**, bearing the priority of **7/30/2012** authorizing the diversion and storage of **57** acre-feet of water of a dry draw tributary of **Badlands Creek /Belle Fourche River** for **fish, wildlife and domestic** purposes, in **Meade** County.

Inspection contact & relationship to permit holder, if applicable:

Jim Tines, leasee
605-290-5304 (cell)

A. Dam Information:

- 1) Height to crest 15.0 feet from downstream toe
- 2) Height to primary spillway 10.0 feet from downstream toe
- 3) Height to secondary spillway 11.5 feet from downstream toe
- 4) Crest width 12 feet
- 5) Crest length 600 feet
- 6) Primary Spillway diameter 18 inches
- 7) Secondary Spillway width 40 feet
- 8) Approx. storage to primary spillway 57.0 ac-ft
- 9) Approx. storage to crest 110 ac-ft

Date constructed: March 2013

B. Works used to put water to beneficial use:

This is an earth fill embankment utilizing a PVC pipe principal spillway and a vegetated earth emergency spillway. The water impounded in the reservoir is put to beneficial use in-place.

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by: Yes

Low flows as needed for downstream domestic use including livestock and prior water rights must be by-passed. A permanent by-pass structure was not installed. Any by-pass of flows if needed will use temporary means.

Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period. N/A

List any extended period of nonuse: **none**

- 2) Exceptions to compliance are: none

D. Condition and Location:

1. The system is in **good** condition with the point of diversion located as follows:
879' E and 807' N of the SW corner Section 26 T6N R14E (44.447258, -102.397585)

The works are capable of diverting to the place of use and storing **57.0** acre-feet of water which is to be used for **fish, wildlife and domestic use**. Water has been put to beneficial use to the maximum extent and the license should be issued for **57.0 acre-feet** storage.

2. All structures, wells and lands on map **Yes**

E. Comments or other permit(s) associated with the project: none



Steven Quissell
Water Rights Inspector
DENR, Water Rights Program

Date report completed: **9/29/2016**



riser and pool



dam crest

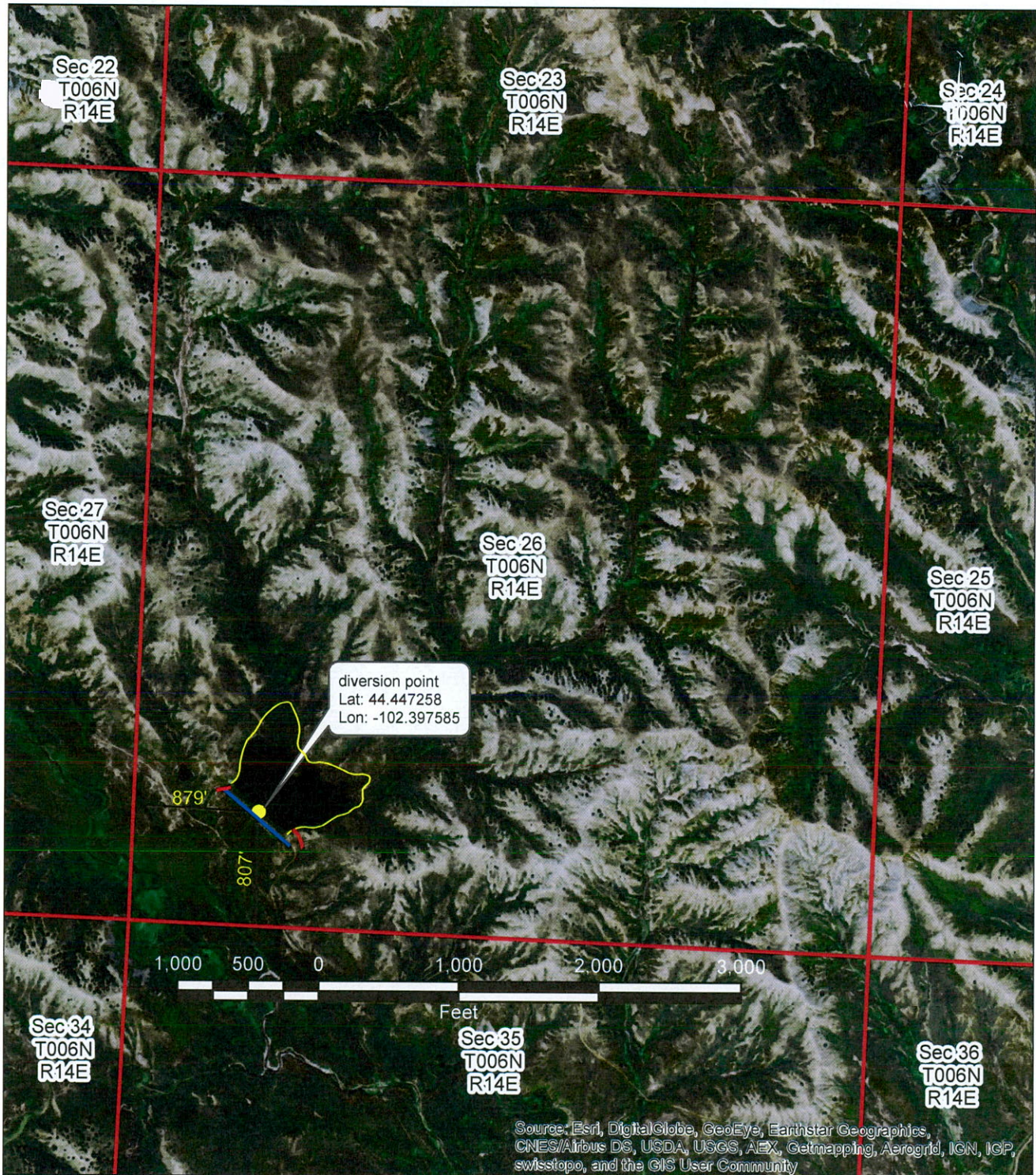


pool



PVC spillway outlet

Water Right # 1929-1
James Scull
9/28/2016



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

1929-1

OCT 24 2016

James Scull
PO Box 7636
Rapid City SD 57709

Dear Mr. Scull:

Enclosed is Water License No. 1929-1. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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,

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

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 1929-1

(1) James Scull, PO Box 7636, Rapid City SD 57709 made Application No. 1929-1, July 30, 2012 for a water permit to impound 57 acre feet of water from runoff, Meade County, South Dakota for fish and wildlife propagation and livestock watering purposes. Permit No. 1929-1, with a priority date of July 30, 2012 was approved September 4, 2012 and issued to the applicant for impoundment of water with construction of the described water supply system to be completed on or before September 4, 2017 and for the application to beneficial use of water on or before September 4, 2021.

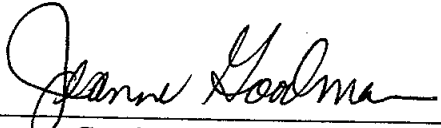
The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on March 27, 2013. The *Notice* stated the diversion system was completed on December 31, 2012 and the water placed to beneficial use on March 1, 2013.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 1929-1 is issued a license, bearing a priority date of July 30, 2012, to impound 57 acre feet of water from runoff for fish and wildlife propagation and livestock watering purposes.

The location of the storage dam (spillway) is 879 feet E and 807 feet N of the SW corner of Section 26-T6N-R14E with water impounded in portions of the SW 1/4 Section 26-T6N-R14E.

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 1929-1 including the following qualifications:

- Water Permit No. 1929-1 authorizes an impoundment with a storage capacity of 57 acre-feet of water and sufficient water annually to maintain the water level to the outlet elevation.
- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.



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

OCT 24 2016
date

