

Considered: _____

WATER PERMIT NO. 5346-3 47

HAP No. same (918)588-3486

Name of Applicant Williams Pipe Line Co.

Post Office Address P.O. Box 3448 One Williams Center Tulsa OK 74101

Amount of Water Claimed 0.223 cfs Total Acres _____

Source of Water Supply groundwater

Water to be used for groundwater remediation County Minnehaha

About _____ miles city of Sioux Falls

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received June 7, 1989 Fee \$225.00 Remarks _____

Aug 14, 1989

Corrected Application Received Aug 14, 1989 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 5 1/2 Sect 14, NW 1/4 NE 1/4 Sect 23;
T10N, R50W

Land to be Irrigated _____

Well Log: Driller NA Licensed YES NO

Depth of Well _____ REMARKS _____

Type of Map plan PREPARED BY C. Hanson Reviewed and the Number

assigned on Aug 21, 1989 By Susan Bower

523 E. Capitol
Pierre, SD 57501
(605) 773-3352

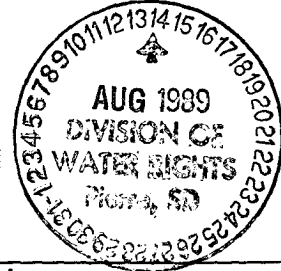
No. 534653 Hydrologic Unit 10170203
Map No. same Basin Big Sioux
Newspaper Argus Leader Box 5034 ST. PLS 57117

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 ☐

Type of Application: Check one or more of the following

New ☐ Vested Right ☐ Future Use ☐ Change Use ☐
☐ Amend Permit No. _____ with old priority date retained
Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐
☒ Application to: Change diversion point(s) ☐ Add diversion point(s) ☒ on Permit Nos WP0021, WP0022, & WP0023
☐ Construction to use water reserved by Future Use Permit No. _____



1. Name of Applicant Williams Pipe Line Company Phone No. (918) 588-3486

Post Office Address P.O. Box 3448 - One Williams Center Tulsa State OK 74101
(Street, RR or Box) (City) Zip Code

2. Amount of water claimed (c.f.s.) Estimated combined yield of all trenches = 0.223 cfs

3. Source of water supply Ground water - 4 recovery trenches

4. Location of point of diversion SW & SE SE SEC 14 T 101N R 50W; NW NE SEC 23 T 101N R 50W

County Minnehaha

5. Counties where water will be used Minnehaha

6. Annual period during which water is to be used January 1 - December 31

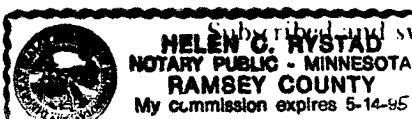
7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
Four recovery trenches are proposed for the Williams Pipe Line 12th Street Terminal at the locations indicated on the attached map. It is anticipated that the trenches will be excavated to a depth from between 16 feet and 25 feet below grade. Several sumps will be placed in each trench, with appropriate spacings between them. A cross section of a typical trench installation is attached.

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 Minnehaha)^{ss}

I, Donald R. Palmer 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 Donald R. Palmer



Subscribed and sworn to before me this 10th day of August 1989
Helen C. Rystad
Notary Public

SOUTH DAKOTA
WATER PERMIT No. 5346-3

Date of first receipt of application June 7, 1989.

Date of return to applicant for corrections, amendments or changes June 7, 1989.

Date of receipt of corrected application August 14, 1989.

The Water Management Board approved Water Permit Application No. 5346-3 on March 7, 1990 for Williams Pipe Line Company, PO Box 3448 - One Williams Center, Tulsa OK 74101 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5346-3 appropriates 0.223 cubic feet of water per second from four recovery trenches located in the SE1/4 SE1/4 section 14; SW1/4 SE1/4 section 14; NW1/4 NE1/4 section 23; all in T101N-R50W.
2. The water appropriated shall be used for the purpose of recovery of petroleum products and may not exceed the amount of water needed for beneficial use for industrial use.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date from which applicant may claim right is August 14, 1989.
5. One-fifth of the construction is to be completed on or before September 7, 1992.
6. All construction is to be completed on or before March 7, 1995.
7. Water is to be put to beneficial use on or before March 7, 1999.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

WATER MANAGEMENT BOARD

By: _____

John H. [Signature]
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

APR 25 1990

(date)

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

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

2. Dugout Information Estimates Trench No. 1 (See attached map)

- a) Surface Dimensions 1,000 feet long Depth 21 feet to 25 feet b.g.
- b) Depth to water (ground surface to water level) 6 feet to 11 feet b.g.

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 _____

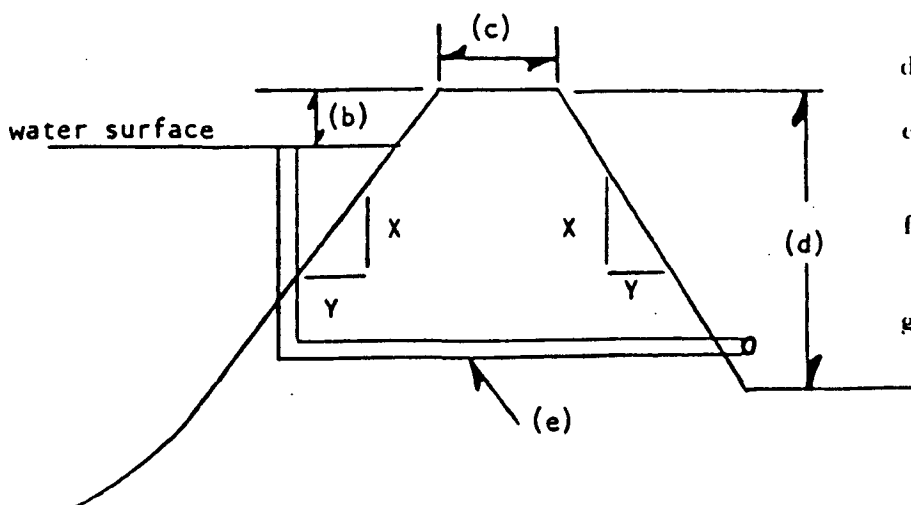
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

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

2. Dugout Information Estimates Trench No. 2 (See attached map)

- a) Surface Dimensions 630 feet long Depth 18 feet to 21 feet b.g.
- b) Depth to water (ground surface to water level) 11 feet to 15 feet b.g.

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 _____

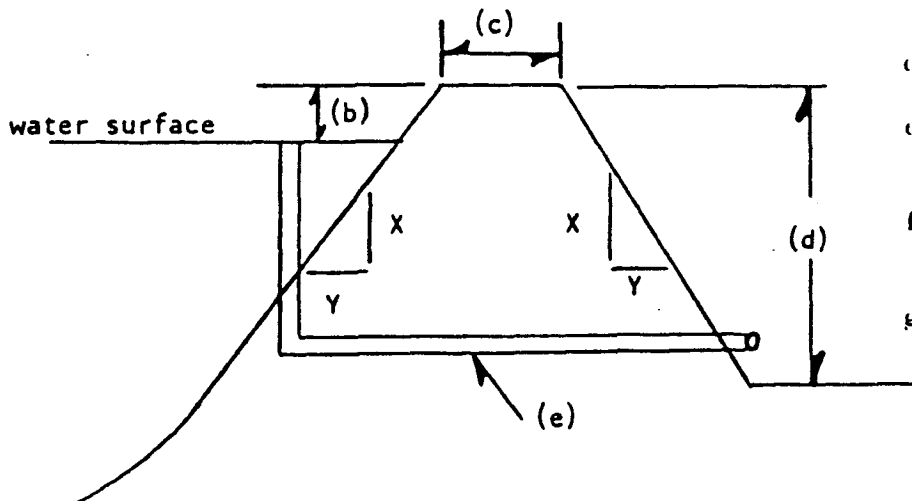
g) X & Y Slope
 Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

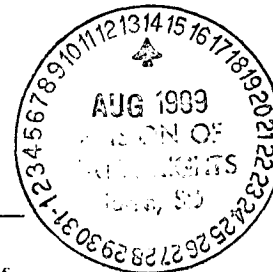
Drainage area above dam _____



 Signature of Applicant

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

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

2. Dugout Information Estimates Trench No. 3 (See attached map)

- a) Surface Dimensions 700 feet long Depth 16 feet to 20 feet b.g.
- b) Depth to water (ground surface to water level) 9 feet to 12 feet b.g.

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

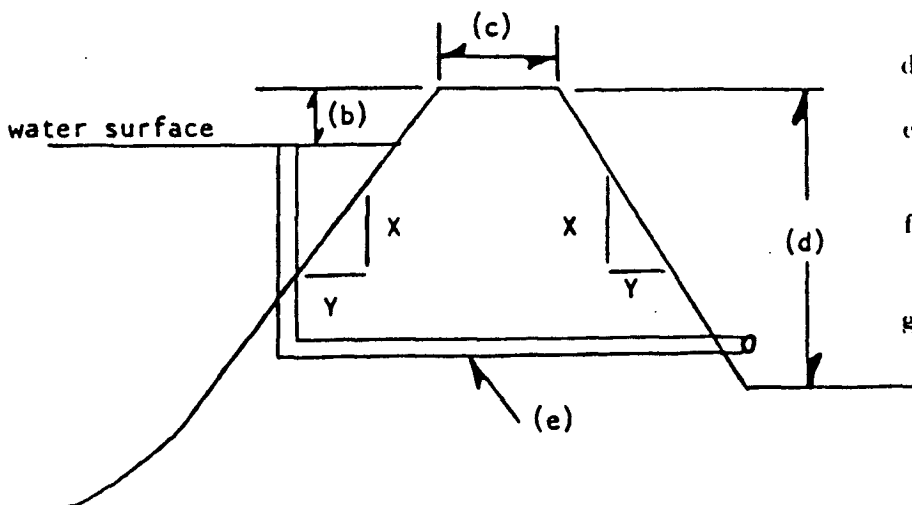
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

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

2. Dugout Information Estimates Trench No. 4 (See attached map)

- a) Surface Dimensions 530 feet long Depth 25 feet b.g.
- b) Depth to water (ground surface to water level) 21 feet b.g.

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 _____

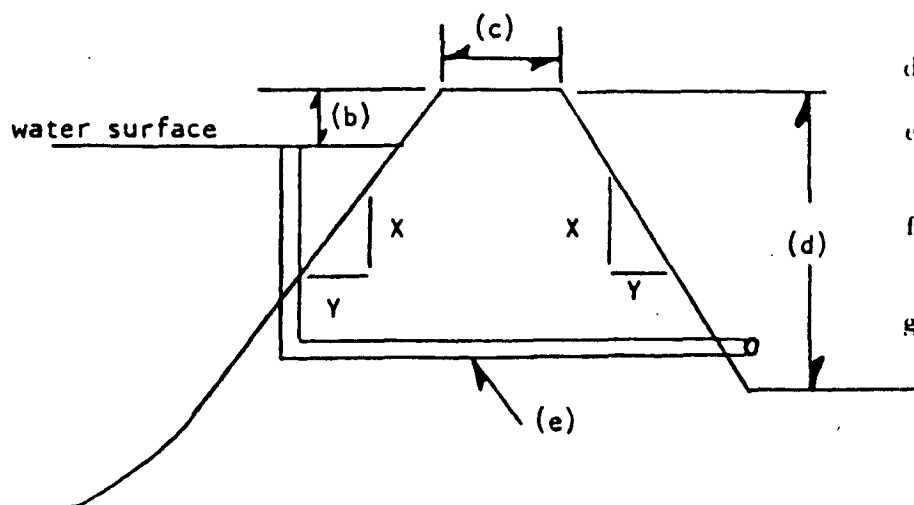
g) X & Y Slope
 Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



 Signature of Applicant

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411876

Pierre, August 14, 19 89

RECEIVED OF Williams Pipeline Company, POBBox 3448, Tulsa, OK 74101-3448

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

Fee for Application for Permit No. <u>5346-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	225	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	225 00

By

John Hatch (ma)
Chief Engineer

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

HAMLET PROFESSIONAL BUILDING
4001 VALHALLA BOULEVARD
SUITE 102
SIOUX FALLS, SD 57106
605-361-6000
FAX 605-361-1117

HARRY F. OLESON
WILLIAM K. BECKMAN
DAN C. BUZEA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

May 22, 1989

Mr. James Goodman
Department of Water & Natural Resources
523 E. Capitol
Joe Foss Building - Room 416
Pierre, SD 57501



RE: WPL 12th Street Terminal
Water-Permit Application

Dear Mr. Goodman:

Enclosed is a water-permit application regarding the construction and operation of four interception trenches at the Williams Pipe Line Company 12th Street Terminal, Sioux Falls, SD. Construction is planned to begin during June, 1989. A map showing trench placement and a generalized trench construction diagram are also enclosed.

If approval of this application is not possible by June, 1989, we hereby request a temporary permit. If you have any questions regarding this application, please do not hesitate to contact us.

Very truly yours,

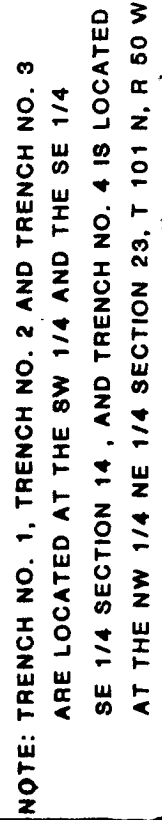
LEGGETTE, BRASHEARS & GRAHAM, INC.

Robert N. Braunstein
Robert N. Braunstein
Senior Hydrogeologist
Field Manager

RNB:ck

Enclosures

cc: LBG-St. Paul

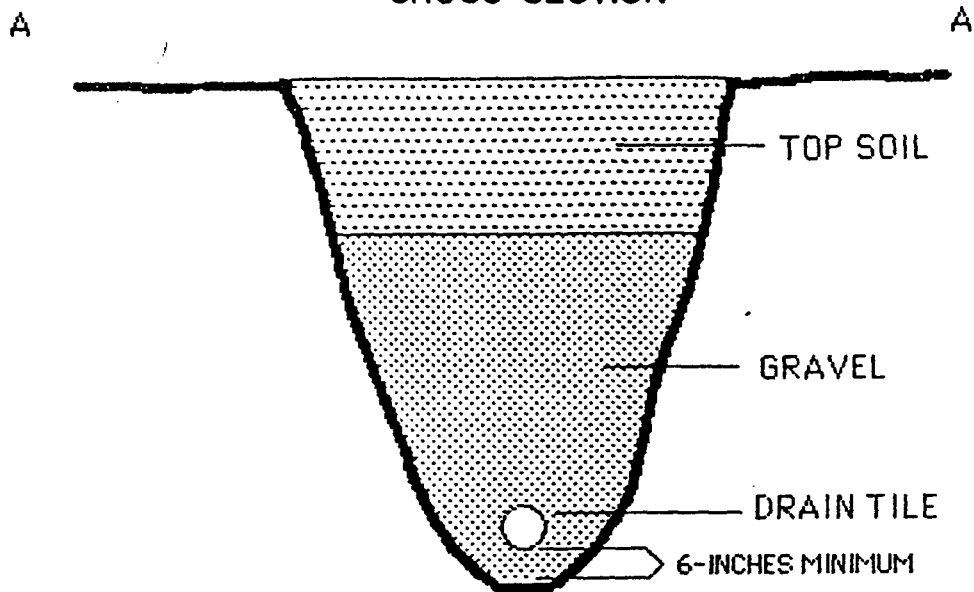


WILLIAMS PIPE LINE COMPANY

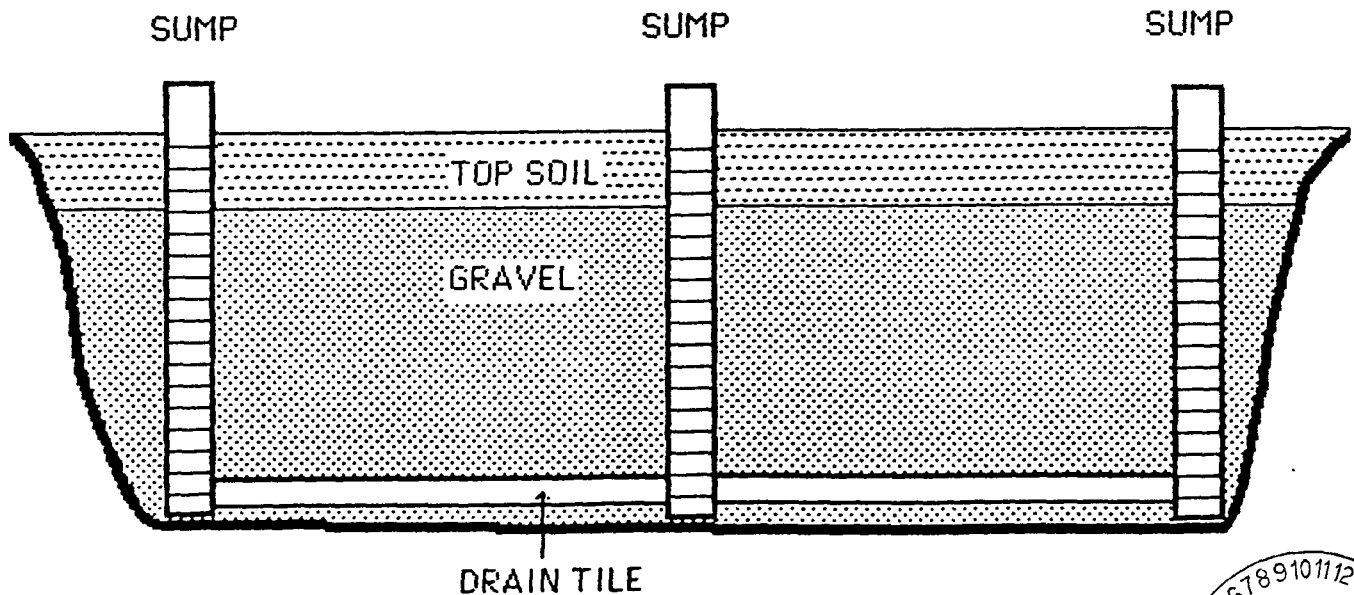
12th STREET TERMINAL

SCHEMATIC DIAGRAM OF A TYPICAL INTERCEPTION TRENCH

CROSS-SECTION



LONGITUDINAL SECTION



NOT TO SCALE





Department of Water & Natural Resources

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

June 7, 1989

Gregory D. Gordon
Williams Pipeline Company
P.O. Box 3448
One Williams Center
Tulsa, OK 74101

Dear Mr. Gordon:

This is in response to the water permit application for four recovery trenches for the William's Pipeline 12th Street Terminal in Sioux Falls, SD, that was received from you on today's date. I am enclosing your temporary permit that is in effect until September 30, 1989.

The regular water permit application is not complete for the following reason(s):

- 1) The enclosed map needs to make reference to a government section corner or quarter-corner. It also needs to be signed by either a South Dakota Registered Professional Engineer, a South Dakota Licensed Land Surveyor, or by a government employee who normally prepares maps as part of their regularly assigned duties (see enclosed instruction sheet).
- 2) The correct fee for appropriating 0.223 cubic feet of water per second, as listed on your water permit application, is \$225. I am enclosing your check for \$50.

The Water Management Board cannot consider a water permit application until it is complete. Please return the enclosed map, with the required signature, showing the location of the trenches with respect to a government section corner or quarter-corner and the correct fee to begin processing of your water permit application.

Feel free to contact me if you have any questions.

Sincerely,

Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605) 773-3352

enclosures



LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
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4001 VALHALLA BOULEVARD
SUITE 102
SIOUX FALLS, SD 57106
605-361-6000
FAX 605-361-1117

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DAN C. BUZEA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

August 1, 1989



Mr. James Goodman
Department of Water & Natural Resources
523 East Capitol
Joe Foss Building - Room 416
Pierre, SD 57501

RE: Williams Pipe Line Company
12th Street Terminal
Water-Permit Application

Dear Mr. Goodman:

Enclosed is a water-permit application regarding the construction and operation of four interception trenches at the Williams Pipe Line Company 12th Street Terminal, Sioux Falls, SD. Construction is scheduled to be completed during September 1989. A map showing trench placement and a generalized trench-construction diagram are also enclosed.

If you have any questions regarding this application, please do not hesitate to contact us.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Robert N. Braunstein

Robert N. Braunstein
Senior Hydrogeologist
Field Manager

RNB:ck

Enclosures

cc: Don Palmer
LBG/St. Paul



C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242

Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435



THE FOLLOWING ARE
AS BUILT DRAWINGS
OF TRENCHES 1-2-3-4
AND THEIR FLOW
THRU RESPECTIVE
TREATMENT FACILITIES

Drawings sent to:

Linda Nichols
Williams Pipe Line Co.

Greg Johnston
State of So. Dak.
D.E.N.R.

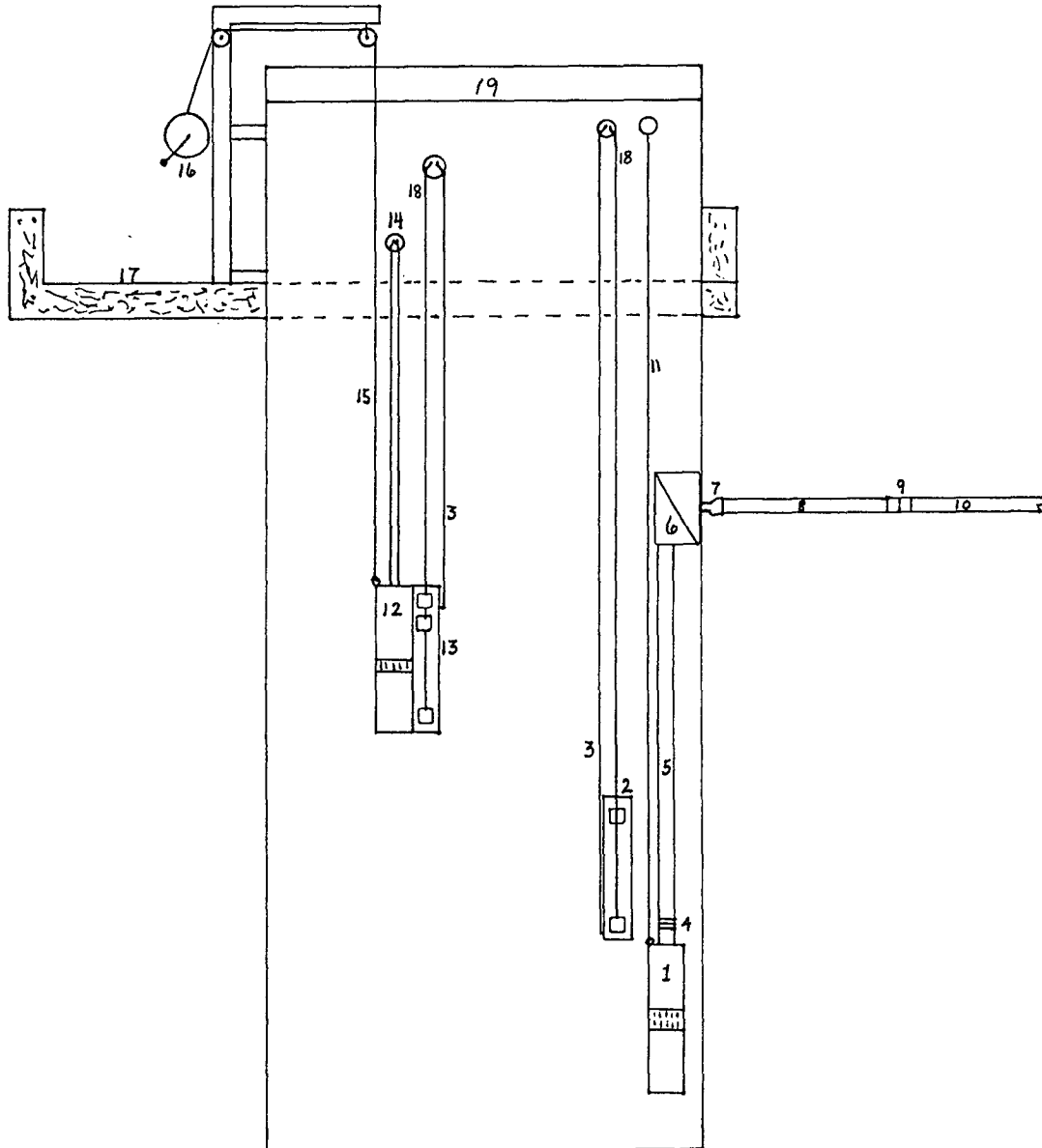


C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242



Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435

AS BUILT DRAWING
TYPICAL OF SP-1 THRU SP-13



INDEX

- | | |
|---------------------------|----------------------------|
| 1 Depression Pump | 11 1/8" S.S. Support Cable |
| 2 Depression Pump Float | 12 Product Pump |
| 3 Fiberglass Tape | 13 Product Pump Float |
| 4 Union | 14 3/4" Smooth Bore Hose |
| 5 1 1/4" Smooth Bore Hose | 15 1/8" S.S. Support Cable |
| 6 1 1/4" Pitless Adaptor | 16 Winch Assembly |
| 7 1 1/4" x 2" Coupling | 17 Concrete Slab and Curb |
| 8 2" Galv. Pipe-Wrapped | 18 Float Control Cable |
| 9 2" Sch. 80 FIP Adaptor | 19 Alum. Cover |
| 10 2" Sch. 80 Pipe P.V.C. | |



C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242



Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435

EACH INFLUENT HAS:

- 1- Check valve
- 2- Sample valve
- 3- Pressure guage
- 4- Water meter
- 5- Ball valve (for regulating gpm)
- 6- Ball valve (for meter maintance)

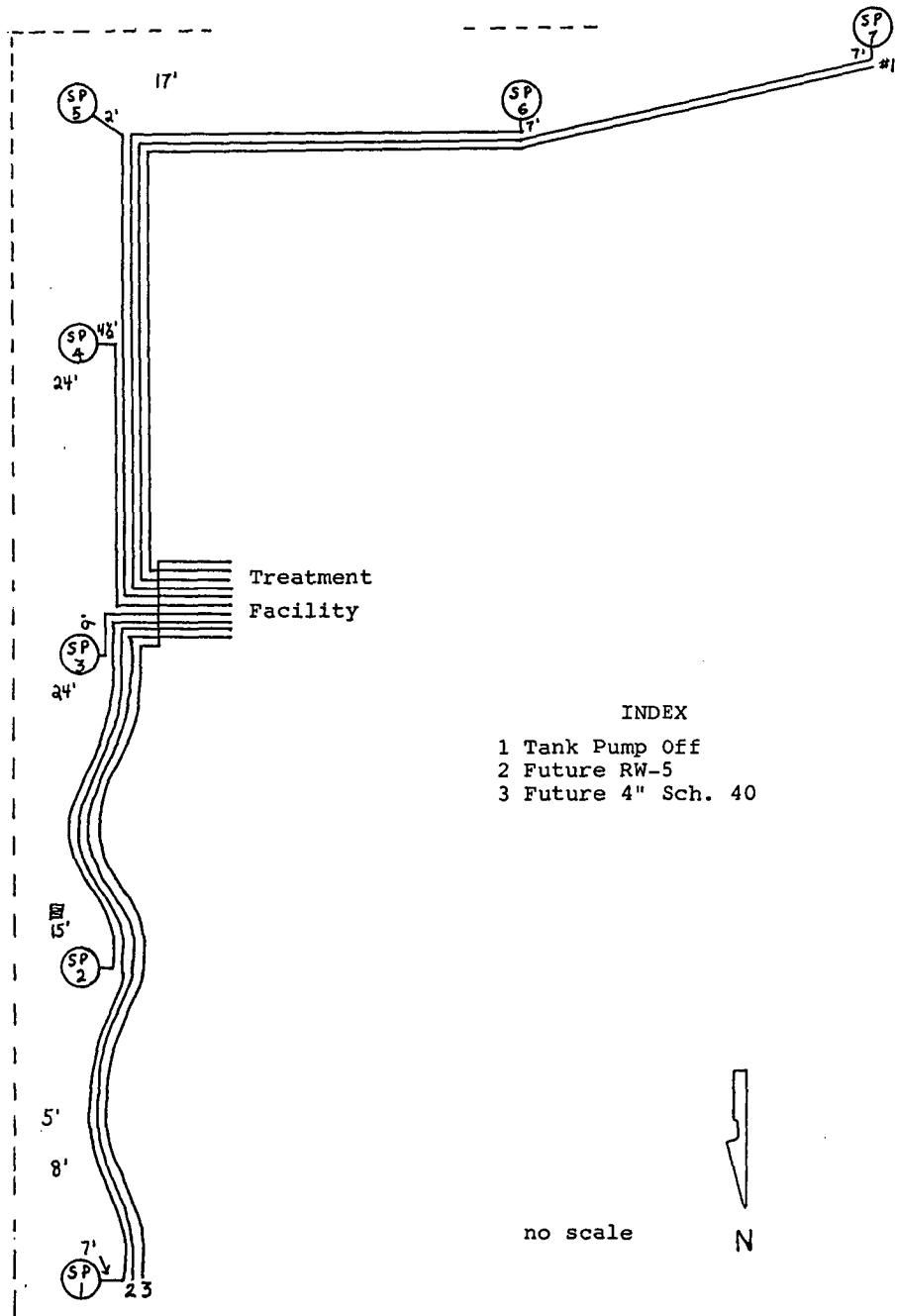


C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242

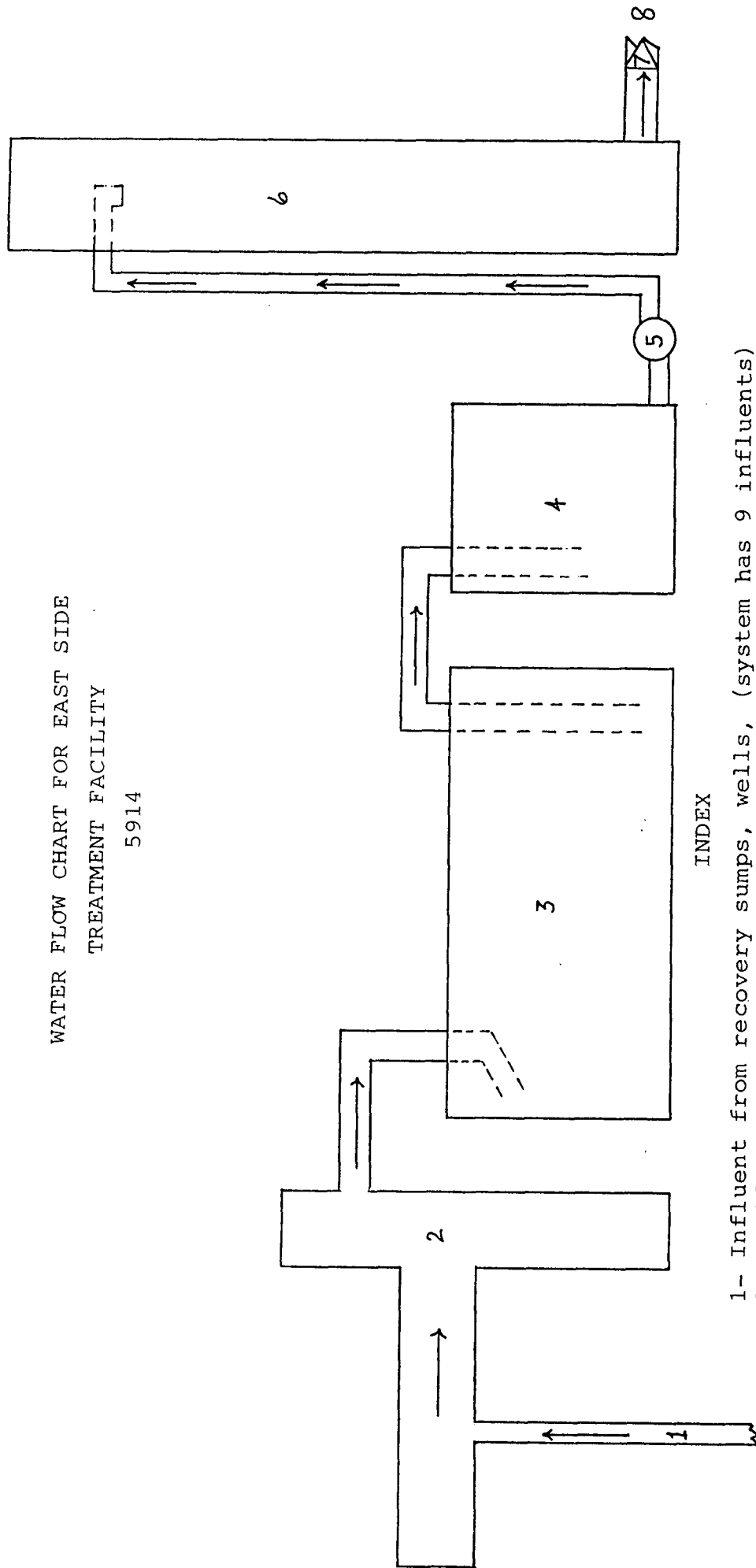


Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435

TRENCH 1 & TRENCH 2



WATER FLOW CHART FOR EAST SIDE
TREATMENT FACILITY
5914



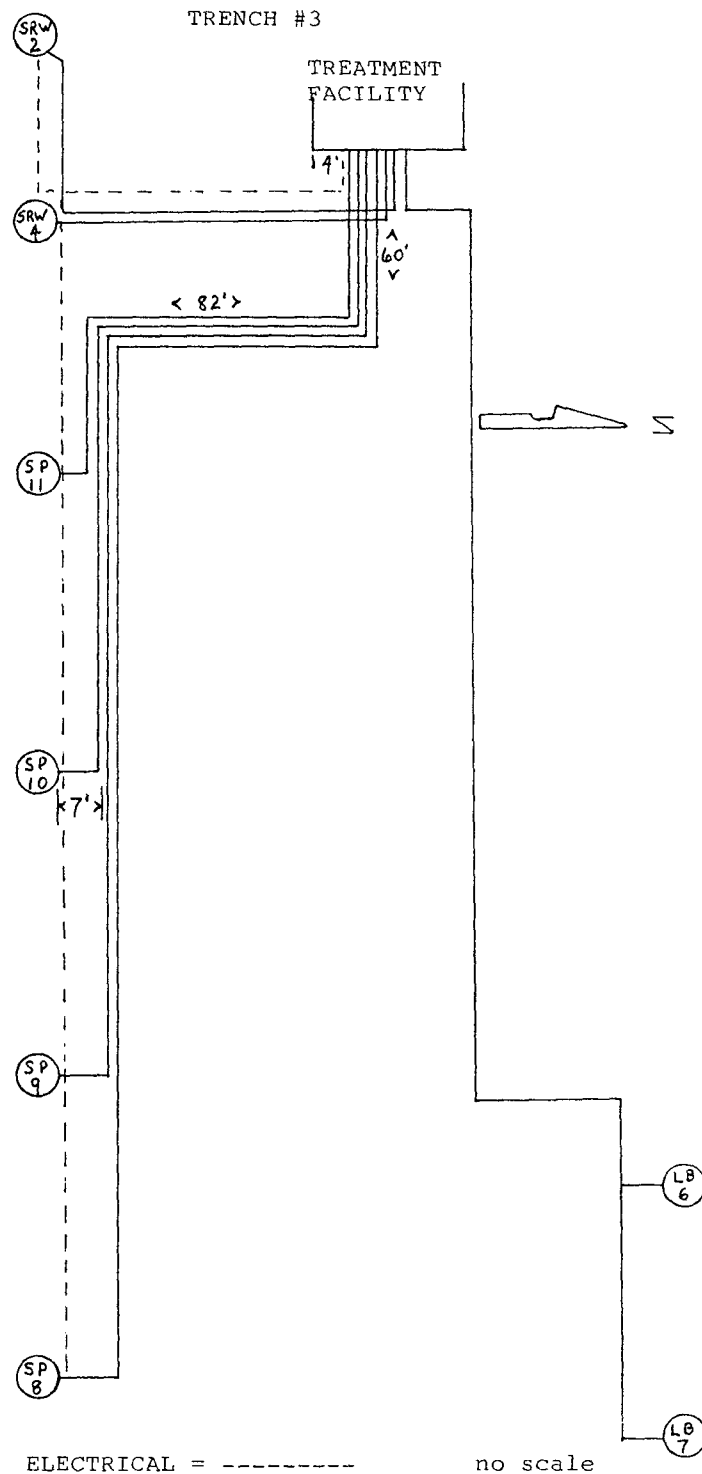
INDEX

- 1- Influent from recovery sumps, wells, (system has 9 influents)
- 2- Manifold and stack, 8" Sch. 40 PVC
- 3- McTighe Oil Water Separator, 2 Petro-Paks, max. gpm. 150.
- 4- Transfer tank, max. cap. 400 gallons
- 5- Transfer pump
- 6- Airstripper tower
- 7- Sewer outfall meter and chart recorder, 30 day chart
- 8- To sanitary sewer



C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242

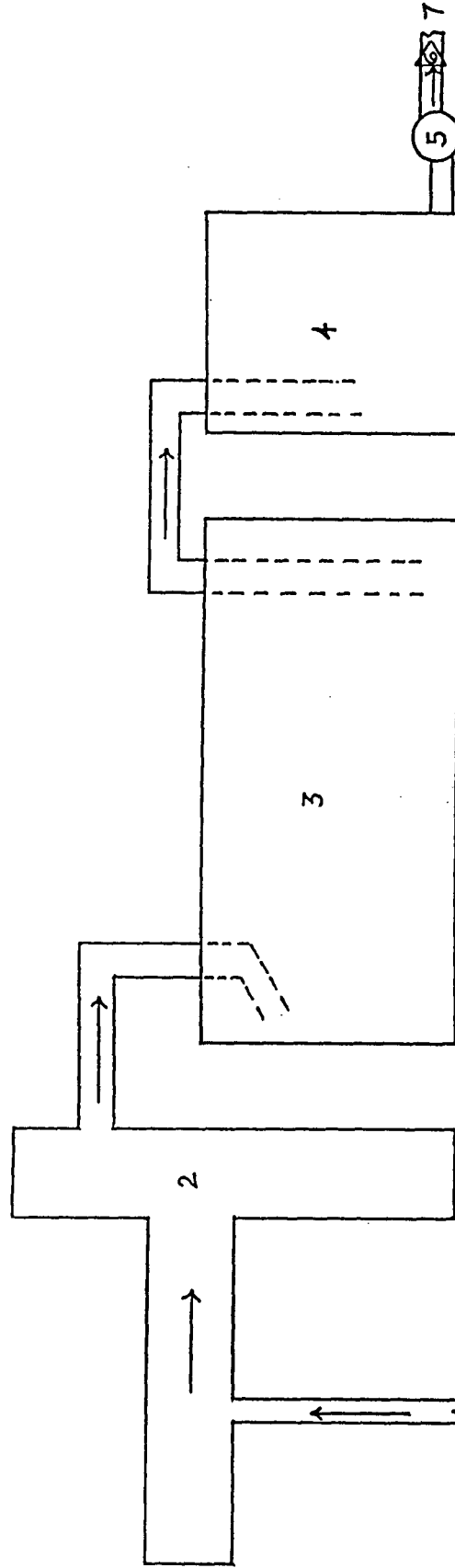
Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435



• Commercial • Control • Industrial
Specializing in Groundwater Recovery & Treatment
Facilities

WATER FLOW CHART FOR WEST SIDE
TREATMENT FACILITY

5913



INDEX

- 1- Influent from recovery sump or well (system has 7 influents)
- 2- Manifold and stack, 8" Sch. 40 PVC
- 3- McTighe Oil Water Separator, one Petro-Pak, max. gpm 85
- 4- Transfer tank, max. cap. 400 gallons
- 5- Transfer pump
- 6- Sewer outfall meter
- 7- To sanitary sewer



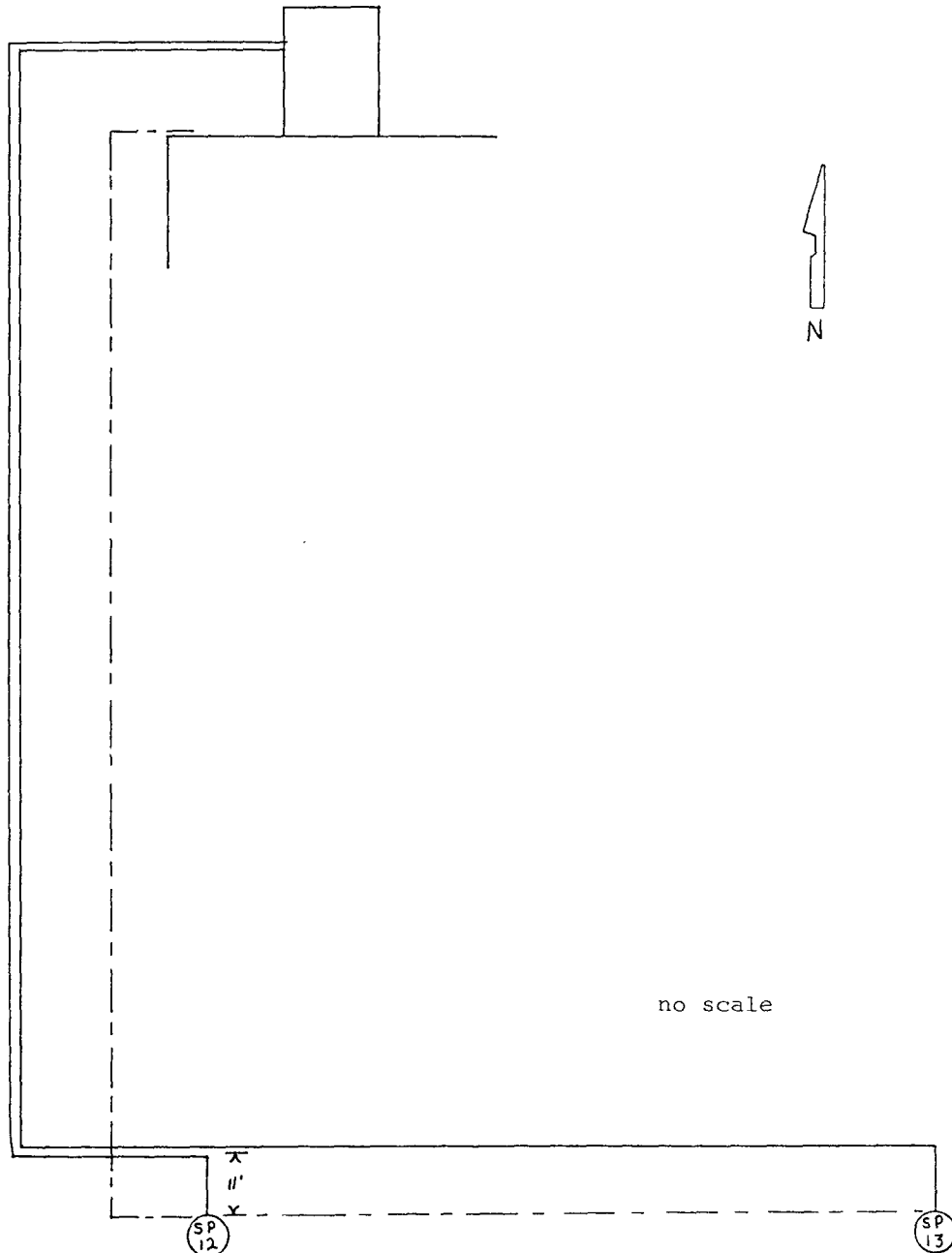
C.D.I. Electric, Inc.
Control Design Installation
(605) 338-4242



Jerry Huls
6901 West Ninth Street
Sioux Falls, SD 57107-0435

TRENCH #4

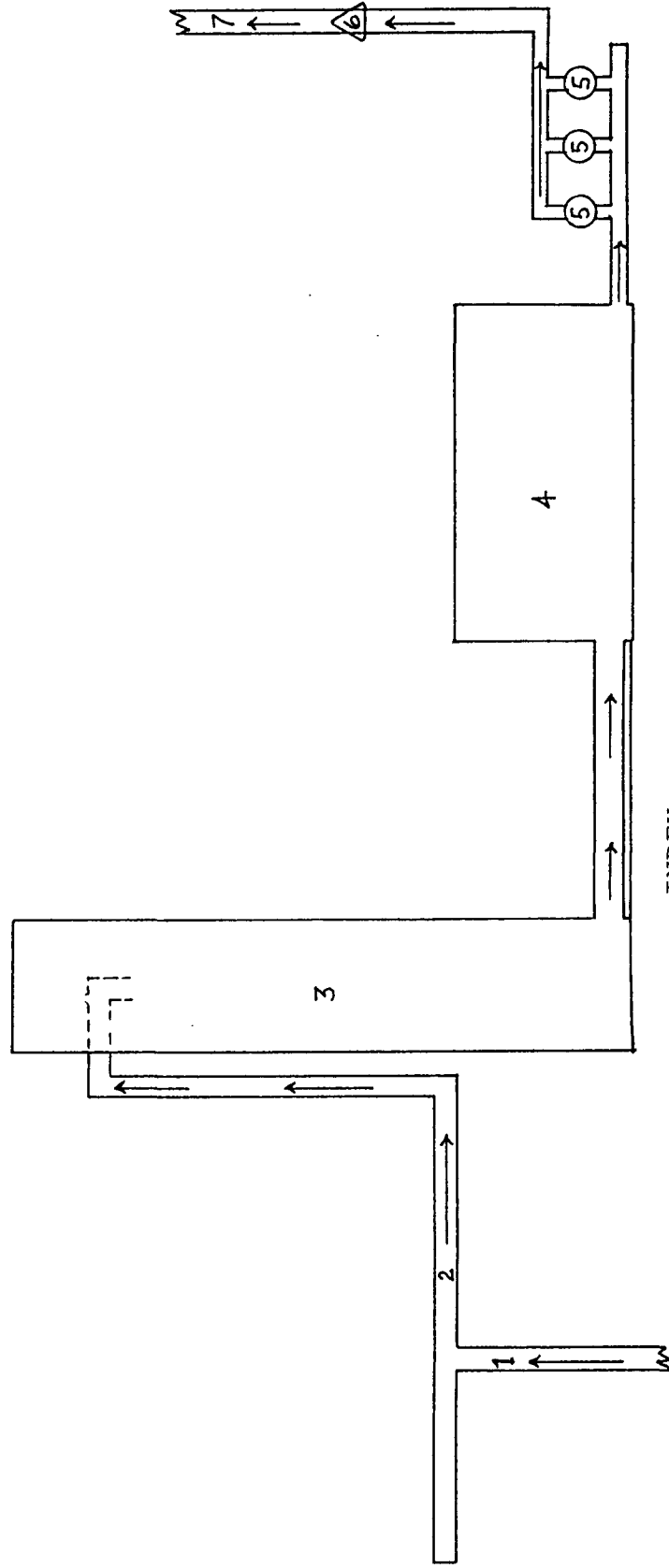
Treatment
Facility



• Commercial • Control • Industrial
Specializing in Groundwater Recovery & Treatment
Facilities

5919

WATER FLOW CHART FOR HAYWARD
TREATMENT FACILITY



INDEX

- 1- Influent from recovery sumps, well, (system has 3 in operation)
- 2- Manifold
- 3- Airstripper
- 4- Transfer tank
- 5- Transfer pumps
- 6- Sewer outfall meter
- 7- To sanitary sewer

Valhalla I Professional Building - Suite 204
4009 West 49th Street
Sioux Falls, SD 57106
605-361-6000

DATE	JOB NO.
August 21, 1991	6WPLND/NDSFLS
ATTENTION	
Mr. Greg Johnston	
RE	
Sump Installation Logs	
Williams Pipe Line Company	
12th Street Terminal	
Sioux Falls, SD	

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- [illegible]

☐ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☒ For your use ☐ Approved as noted ☐ Submit_____copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

NTH

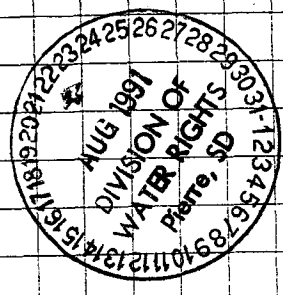
SIGNED: Nathan T. Hunk

KML

7/17/81

Well #	T.D.
MW-65	42.08 + 0.35 = 42.43
Depth to water	36.10 - 0.24 = 35.86
MW-66	41.05 to 35 = 41.90
Depth to water	31.01 - 1.05 = 29.96

Sump 11 installed ~ 0.4 feet higher than planned.
Clay was moist today, no flowing water -
Clay is very stiff, gray (unoxidized) with trace gravel, angular, coarse to fine (lodgement fill)? boulders may be basal glacier transported



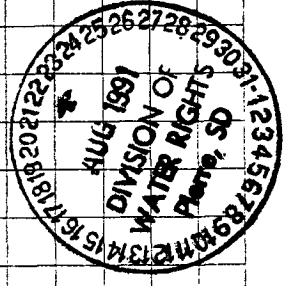
7/18/89

MW-6S - steel casing measurements
 Outside diameter = 3.52
 Inside diameter = 3.30

Petrarch Trench 4
 photos and samples ~~not~~ ^{sent}

3 photos 1-NW corner, 2-SW corner, 3-SW corner
 Interbedded sand and gravel, x-bedded
 gravels are stained red (hematite)
 finer sands are thin to gray-fine sands
 very well sorted

sample bottom of sump ~~local~~ - Sump #13
 sand and gravel ~ 12-15' depth
 photo vox (clinking noise)
 background ~ 12' ran for 11 mins
 reading 2.5 before reading



Layne Western Drillers Inc.
 Bill Discheel
 Jerry Ziebart
 Mike Ingalls

N-facing Trench wall
 Western most sump excavation

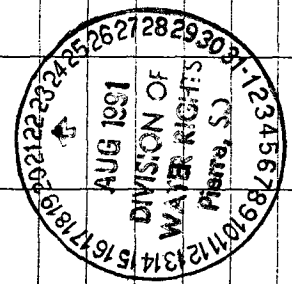
~3.5' Topsoil
 Subsoil
 Geoblobes

S x-bedded
 white veins in gravel

Sand and gravel
 not to scale

7/19/89

Sump 1	7/18/89 AM
some water in the bottom	
clay at 10'	
12:25 stop drilling	Sump hole 10' deep
clay at 7.5 to 8'	overlain by
sand, coarse to v. coarse and gravel	
blue gray clay at ~ 12' by size cobbles	
at 22'	
Sump 10	dug 7/18/89 AM
water ~ 12' below surface	
seeping in through slots	
(rained during evening)	
night 7/17/89 water level rose	
from gravel fill around Sump 10	
clay at 10'	
Trench 4	
clay at 19' PLS	
occasional sand boulder primarily	
send sp of	
sample clay r. sand	Sump # 12
photo voc	
background - 0.5	photo vac
reading	about 3 min
	D.I.



Depth to blue clay	16 + 5 = 21', 8645
Depth to yellow clay	23 + 5 = 28', 8645
A to blue clay	

Depth to blue clay	16 + 5 = 21' 86.5
Depth to yellow clay	23 + 5 = 28' 86.5
A to blue clay	

13:30 - Sunny, warm - 76°F,
light wind.
observing drilling of Sump bore hole
3 repairing hydraulic hose leak
- pre-druck bit of Sump #12
(Sump #12 drilled & installed
7/19/67 AM)
pre-trenching boulders overlying clay
layer.

7/19/89 AM

pretrenching boulders overlying clay layer.

border der SA, mit einem
Lutigen

Trench 3 will need to be
purchased ~~along~~ ^{along} the entire
length

Sum p	#	3
-------	---	---

blue clay at ~ 14 ft = 23.5 ft below 695

GS Field of Surface Subinents
remains

clays - silt, some sand, fine to coarse

Trace gravel fine, blue-gray
color, no obs of moss +

= Yellow tan clay at 17 to 5' - thin lenses
12500 sh. ft.

7/19/81

RLB

Blue clay has an occasional

limestone, mostly

becoming more compact with depth

TD at 14:55

28' 8" + 5' = 33' 8"

Sump bottom at about 14:03

32.65



Report on Application No. 5346-3
Williams Pipeline Company
Sioux Falls, South Dakota
October 2, 1989

This application proposes to appropriate 0.223 cfs from four recovery trenches located in the SE1/4 SE1/4 of Section 23, T101N R50W, Sioux Falls, South Dakota. The trenches are used for groundwater remediation at Williams Pipe Line 12th Street Terminal. The trenches are constructed to a depth from between 16 and 25 feet below grade. Several sumps are placed in each trench, with appropriate spacings between them.

Project Discussion

Williams Pipeline Company is using Water Permit No. 5142-3 at this site to recover hydrocarbons. The efficiency of the hydrocarbon recovery program has been declining due to lowering groundwater levels in the area.

A temporary use permit was issued by the Chief Engineer to Williams Pipeline Company on June 7, 1989, for the above groundwater remediation trenching project. The temporary use permit expired September 30, 1989. Appendices 1 and 2 show a typical schematic diagram and the location of the recovery trenches. Construction of the recovery trenches has been beneficial to the hydrocarbon recovery program at the Williams Pipeline 12th street Terminal.

Aquifer - Big Sioux- Southern Skunk Creek (BS-SSC)

The Big Sioux-Southern Skunk Creek is a Wisconsin age sand and gravel outwash and alluvium (Ellis, 1965). The aquifer is predominately under water level conditions (Goodman, 1987). The Big Sioux-Southern Skunk Creek aquifer is hydraulically connected to the Big Sioux River and the Big Sioux-South aquifer. The area of the permit application has been extensively studied by the Department of Water and Natural Resources (Iles, etal, 1987).

The BS-SSC Management Unit contains 32,010 acre-feet of recoverable water and underlies 9,700 acres (Hedges, 1982). Recharge can be extremely variable from year to year and could vary between 2.7 and 6.9 inches per year (2200 to 5600 acre-feet per year). It is believed that the aquifer will accept recharge quickly when available and is limited more by the total storage capacity than by the rate of recharge (Goodman, 1987). Reported irrigation use for 1988 from the aquifer was 724 acre feet (4,498 acre feet are permitted) (Water Rights Division, 1989).

Review of Existing Water Rights

There are numerous existing water permits and domestic wells in this area. Williams Pipeline made a survey of existing wells in the area in 1987 when applying for Water Permit No. 5142-3. According to Williams Pipeline, there were 8 existing wells within 200 feet of their recovery wells in 1987.

The following is a list of water permits in this area.

Permit No.	Owner	Diversion Rate	Use	Well Depth	Aquifer
367-3	R. Bruns	0.78	irr	?	?
368-3	R. Bruns	1.38	irr	gravl pit	Big Sioux-SSC
			(97 acres)		
404-3	Westward Ho	2.70	irr	34'	Big Sioux-South
			(223 acres)		
449-3	City of Sioux Falls, municipal use reserved, 3.1 currently being used, 12.5 for future use			15.6 originally	Big Sioux-SSC
995-3	Greenlee Packing Co.	1.00	ind	580'	Sioux Quartzite
995A-3	Pam Oil Inc.	0.40	geo	351'	Sioux Quartzite
1257-3	Greenlee Packing Co.	1.70	ind	348'	Sioux Quartzite
1767-3	Meilman Food Ind.	0.11	com	273'	Sioux Quartzite
2095-3	C. Weeg	0.06	com	40', 60'	Big Sioux-SSC
2304-3	Weeg Trailer Park	0.02	com	35', 35'	Big Sioux-SSC
2305-3	Gene Weeg	0.18	com	60', 45'	Big Sioux-SSC
4159-3	Don Weeg	0.67	com	55', 65'	Big Sioux-SSC
4297-3	Holiday Mobile Park	0.06	dom	146', 180'	Quartzite
4463-3	Pine Knoll Inc.	0.02	com	35'	Big Sioux-SSC
4913-3	Tower Tourist Camp	0.11	com	40'	Big Sioux-SSC
5019-3	Midwest Lawn Care Crp	0.23	com	40'	Big Sioux-SSC
5028-3	Dale Olson	0.10	com	199', 230'	Quartzite
5142-3	Williams Pipeline Co	0.44	rec	20 wells	Big Sioux-SSC
5148-3	Myrl and Roy's Paving	1.11	com	grvl pit and	Skunk creek
5210-3	Gene Weeg	0.22	com	60'	Big Sioux-SSC
5214-3	City of Sioux Falls	3.10	mun	3 @ 40'	Big Sioux-SSC

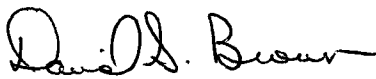
Observation Well, MA-80Y, is located within 0.5 miles of the proposed project. Historical water levels taken from observation well MA-80Y indicate seasonal fluctuations within the Big Sioux-Southern Skunk Creek aquifer due to recharge events (Observation Well Files, 1989).

There may be some drawdowns caused by the remediation trenches which affect and nearby domestic wells, however, this should not adversely affect adequate domestic wells.

Conclusions

1. Water is available from the Big Sioux-Southern Skunk Creek Aquifer.

2. Interference with existing water permits is not likely. Continued monitoring of observation and production wells within the vicinity is necessary in order to determine the actual effects of the hydrocarbon remediation pumping.
3. A temporary permit was issued to Williams Pipeline Company on June 7, 1989, for construction and use of the proposed project. The project has been constructed and is currently being used for groundwater/hydrocarbon remediation purposes.
4. Hydrocarbon remediation of the groundwater at the Williams Pipeline site is desirable for the protection of domestic and commercial groundwater users.



DAVID S BROWN
Natural Resources Engineer

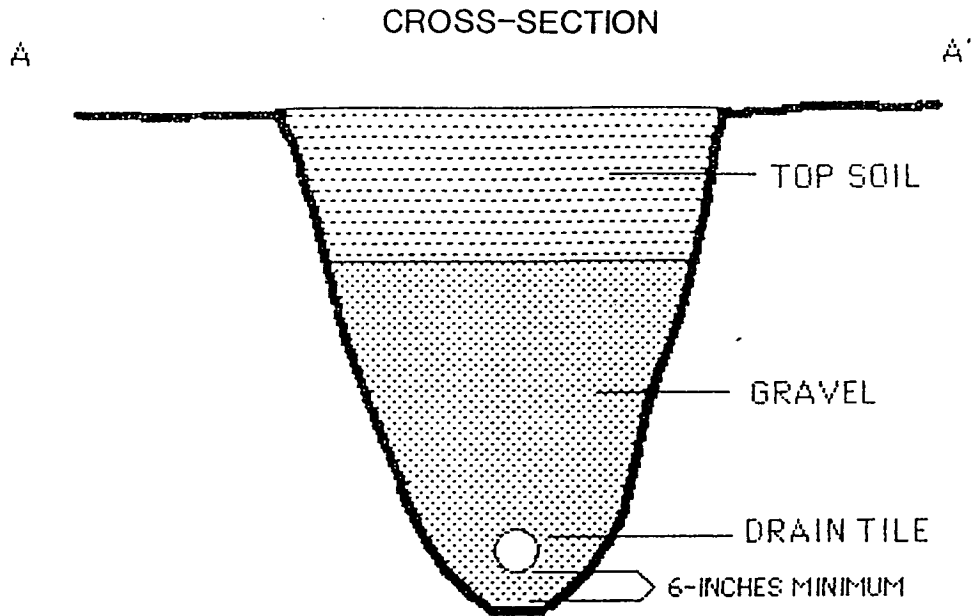
Bibliography

- Ellis, M.J., D.G. Adolphson, 1965, Hydrogeology of the Glacial Drift in the Skunk Creek-lake Madison Drainage Basin Southeastern South Dakota, USGS Hydrologic Investigations Atlas HA-195, Washington D.C.
- Goodman, J., July 28, 1987, Report on Application No. 5142-3 Williams Pipeline Company, Department of Water and Natural Resources, Division of Water Rights, Joe Foss Building, Pierre, SD 57501.
- Hedges, L.S., S. L. Burch. D. L. Iles, R. A. Barari, R. A. Schoon, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, For US Army Corps of Engineers, DWNR, SDGS, Vermillion SD 57069.
- Iles, D.L., Etal, 1987, Assessment of Hydrogeologic and Ground-Water Contamination Data in the Vicinity of the Haywood Elementary School, West 12th Street, Sioux Falls, South Dakota.
- Observation Well Files, 1989, Records for MA-80Y, DWNR, Division of Water Rights, Joe Foss Building, Pierre SD 57501.
- Water Rights Division, 1989, Domestic Well Logs and Permit Files, DWNR, Division of Water Rights, Joe Foss Building, Pierre SD 57501.

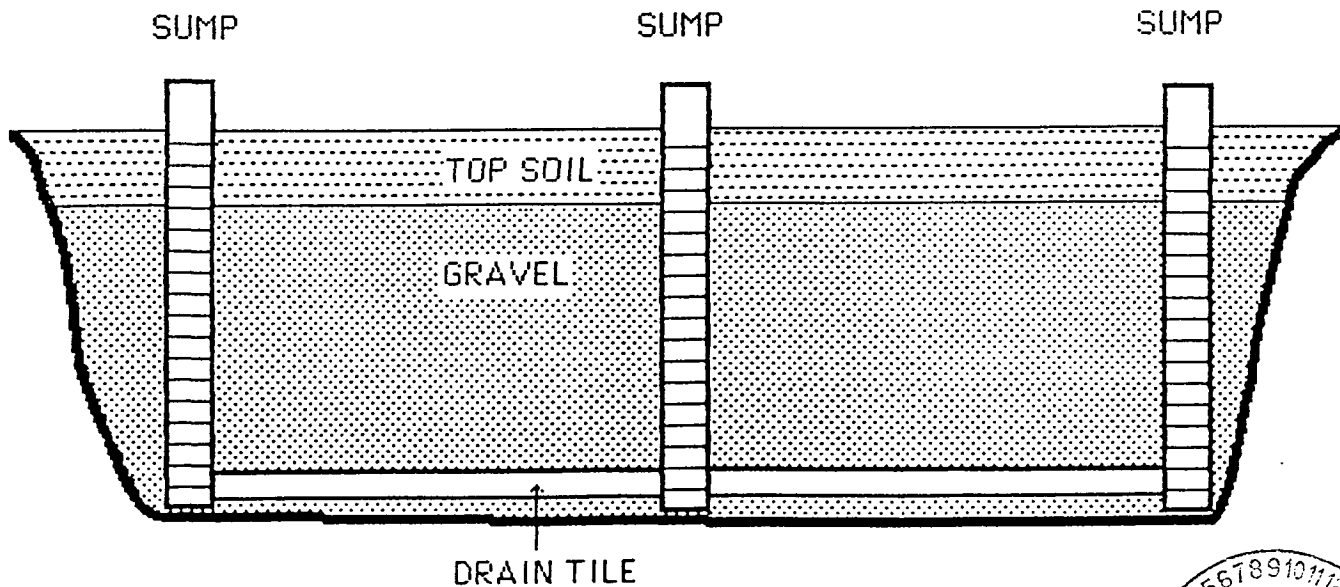
WILLIAMS PIPE LINE COMPANY

12th STREET TERMINAL

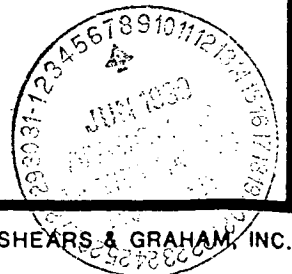
SCHEMATIC DIAGRAM OF A TYPICAL INTERCEPTION TRENCH

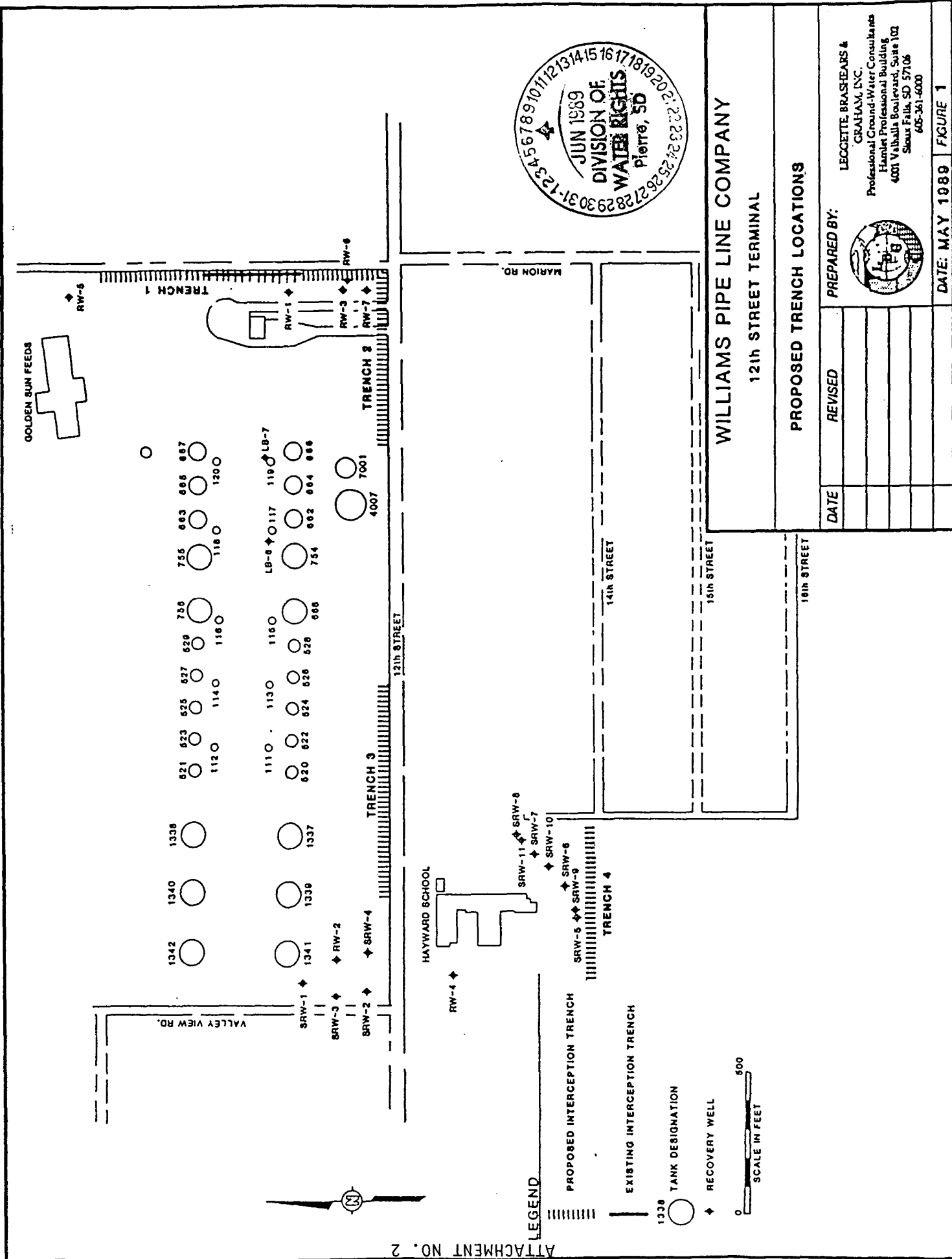


LONGITUDINAL SECTION



NOT TO SCALE





RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5346-3, Williams Pipeline Company

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5346-3, Williams Pipeline Company, PO Box 3448, Tulsa Oklahoma.

The Chief Engineer is recommending APPROVAL of Application No. 5346-4 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.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
October 3, 1989

**South Dakota Department of
Water & Natural Resources**

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

October 31, 1989

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

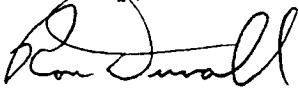
Donald R. Palmer
Williams Pipeline Company
P.O. Box 3448
Tulsa, OK 74101-3448

Dear Mr. Palmer:

Water Permit Application No. 5346-3 for groundwater remediation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls SD. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation are also enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of 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 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
605 773-3352

enclosures



SOUTH Dakota Department of
Water & Natural Resources

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

October 31, 1989

Argus Leader
Box 5034
Sioux Falls, SD 57117

ATTN: Legal Department

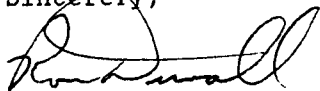
Enclosed is a Notice of Hearing on Application No. 5346-3 to be published twice. Please publish the first notice on or before November 6, 1989 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Williams Pipeline Company, P.O. Box 3448, Tulsa, Oklahoma 74101-3448.

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

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

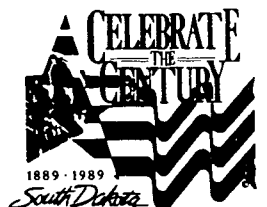
No. _____

Date _____

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

Name

Newspaper



Instruction to Newspaper - Publish first Notice on or before November 6, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5346-3 to Appropriate Water

Notice is given that Williams Pipeline Company, P.O. Box 3448, Tulsa, Oklahoma 74101-3448 has filed an application for a water permit to appropriate 0.223 cubic feet of water per second from four recovery trenches located in the SE1/4 SE1/4 Section 14, SW1/4 SE1/4 Section 14, NW1/4 NE1/4 Section 23; all in T101N-R50W. The trenches are used for groundwater remediation at the site.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5346-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on December 6, 1989 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by November 24, 1989. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by November 24, 1989.

This application is made pursuant to 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, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

WILLIAMS PIPE LINE COMPANY
ONE OF THE WILLIAMS COMPANIES, INC.

APACHE OFFICE PARK - SUITE 246
2500 39th AVENUE NORTHEAST
MINNEAPOLIS, MN 55421



November 10, 1989

Ron Duvall
South Dakota Department of Water
& Natural Resources
Water Rights Division
Joe Foss Building
Pierre, SD 57501-3181

Dear Mr. Duvall:

I am in receipt of your letter dated October 31, 1989. Because the letter did not arrive until November 9, I was unable to issue permission for publication of the Notice of Hearing to the Argus Leader by November 6, as you requested. The earliest dates that publishing can occur is November 14, with the second publication to follow on November 21.

If there is a problem with these dates please inform me as soon as possible. I can be reached at (612)633-1555.

Sincerely,

Donald R. Palmer
Environmental Specialist

cc: S.S. Ball
P.L. Schmigle
J.K. Powers
Bill Markley
Roger Schiager



Department of Water & Natural Resources

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

January 10, 1990

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

Donald R. Palmer
Williams Pipeline Company
P.O. Box 3448
Tulsa, OK 74101-03448

Dear Mr. Palmer:

Water Permit Application No. 5346-3 for groundwater remediation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls SD. For your information, a copy of the notice is enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

✓ Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures



**SOUTH Dakota Department of
Water & Natural Resources**

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

January 10, 1990

Argus Leader
Box 5034
Sioux Falls, SD 57117-5034

ATTN: Legal Publications:

Enclosed is a Notice of Hearing on Application No. 5346-3 to be published twice. Please publish the first notice on or before January 17, 1990 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Williams Pipeline Company, P.O. Box 3448, Tulsa, Oklahoma 74101-3448.

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

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

No. _____

Date _____

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

Name

Newspaper



Instruction to Newspaper - Publish first Notice on or before January 17, 1990 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5346-3 to Appropriate Water

Notice is given that Williams Pipeline Company, P.O. Box 3448, Tulsa, Oklahoma 74101-3448 has filed an application for a water permit to appropriate 0.223 cubic feet of water per second from four recovery trenches located in the SE1/4 SE1/4 Section 14, SW1/4 SE1/4 Section 14, NW1/4 NE1/4 Section 23; all in T101N-R50W. The trenches are used for groundwater remediation at the site.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5346-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board in the Roosevelt - Jefferson Room, Howard Johnson, 2211 LaCrosse, Rapid City, SD on March 7, 1990 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by February 23, 1990. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

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This application is made pursuant to 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, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA, }
COUNTY OF MINNEHAHA } SS.

M. Devish being duly sworn, says: That the Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota, by Sioux Falls Newspapers, Inc.; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Wednesday the 24 day of January, 1990,

Wednesday the 31 day of January, 1990,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

and that 74.80 was charged for publishing the same including a \$2.00 affidavit fee.

M. Devish

Subscribed and sworn to before me January 31, 1990.

Nancy A. Buckley
Notary Public, South Dakota



NOTICE OF HEARING
on Application No. 5346-3
to Appropriate Water

Notice is given that Williams Pipeline Company, P.O. Box 3448, Tulsa, Oklahoma 74101-3448, has filed an application for a water permit to appropriate 0.223 cubic feet of water per second from four recovery trenches located in the SE1/4 SE1/4 Section 14, SW1/4 SE1/4 Section 14, NW1/4 NE1/4 Section 23; all in T101N-R50W. The trenches are used for groundwater remediation at the site.

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

Date 5/14/90

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

FROM: Williams Pipe Line 2500 39th Ave NE #246 Minneapolis, MN 55421
name address city

Site located at: 6300 W. 12th St Sioux Falls, SD

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. 5346-3.

Water Permit No. 5346-3 states that the diversion system is to be constructed by March 7, 1995, and that the water it put to beneficial use by March 7, 1999.

The diversion system was completed on 11/15/89.
Applying the water to beneficial use was completed on _____.

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

Donald R. Felt
signature



Department of Water & Natural Resources

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

APR 25 1990

Donald R. Palmer
Williams Pipeline Company
PO Box 3448
One Williams Center
Tulsa OK 74101

Dear Mr. Palmer:

Enclosed is Water Permit No. 5346-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

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

Very truly yours,

A handwritten signature in cursive script, reading "John Hatch".

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

enclosures

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

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

File No. 5346-3

Water Rights Division -DENR

Conversation or File Documentation

NAME OF PERSON OR FILE: **Williams Pipeline**

ADDRESS: **P.O. Box 3448 - One Williams Center Tulsa, OK**

COUNTY: **Minnehaha**

DATE: **8/9/91**

TELEPHONE: **(918)/588-3486**

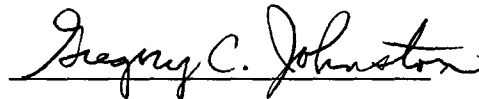
RE: **Inspection of Williams Pipeline**

COMMENTS:

Called Jason Huso - gave me number of field person responsible for Williams Pipeline Project in Sioux Falls.

**Project Manager: Linda Nicols
Minneapolis, MN (612)/633-1555**

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.



Gregory C. Johnston

Natural Resources Engineer

DENR, Water Rights Division

File No. 5346-3

Water Rights Division -DENR

Conversation or File Documentation

NAME OF PERSON OR FILE: Linda Nicols

ADDRESS: Minneapolis, MN COUNTY: Minnehaha

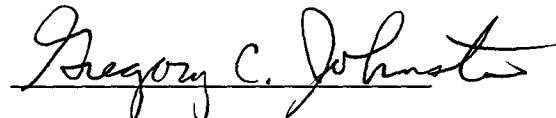
DATE: 8/21/91 TELEPHONE: (612)/633-1555

RE: Obtaining Logs of trenches dug at Williams Pipeline site

COMMENTS:

Called Linda in order to see if she had logs of the 4 trenches dug at the Williams Pipeline site in Sioux Falls. She said she would contact Nate, Project Manager at Leggette, Brashears and Graham, Inc. in Sioux Falls (the ground water consulting firm that worked on the Pipeline project). She said Nate would forward copies of the logs to me.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.



Gregory C. Johnston

Natural Resources Engineer

DENR, Water Rights Division



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 7, 1992

5346-3

Williams Pipeline
PO Box 3448
One Williams Center
Tulsa OK 74101

Dear Sir:

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. 5346-3, 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

413068

Pierre, February 14, 1992

RECEIVED OF Jeanne Schorn (Williams Pipeline) 2500 39th Ave NE #246, Minn MN 55421

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. 5346-3	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
Chief Engineer

Permit No. 5346-3Big Sioux Water District

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

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

I have this day made a thorough examination of the water use system constructed by Williams Pipeline of PO Box 3448 One Williams Center, Tulsa, OK 74101 holder of Permit No. 5346-3, bearing the priority of August 14, 1989 authorizing the diversion of 0.223 cu. ft. per second and/or the storage of acre-feet of the waters of Big Sioux Aquifer-South Skunk Creek Unit for industrial (recovery of hydrocarbons) purposes, in Minnehaha County.

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

A. Works used to divert the water:

4 Trenches : No.1 - 1000' long, 21-25' below grade; No. 2 - 600' long, 18-21' below grade; No. 3 - 700' long, 16-20' below grade; No. 4 - 530' long, 25' below grade. 13 Sump Pumps (SP's)- All except SP No. 4 are 5 Stage Grundfus Submersible pumps - Model No. 25-S07, 1.5", 3/4 HP Motor, 30 GPM @ 40PSI; SP No. 4 is a 5 Stage Grundfus Model 5E5 Environmental Pump, 1.5", 3/4 HP motor, 30GPM @ 40 PSI

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

6000' of 2" PVC, 6' of 6" PVC and 15' of 8" PVC (All PVC is Schedule 80)

C. Works used to apply water to beneficial use:

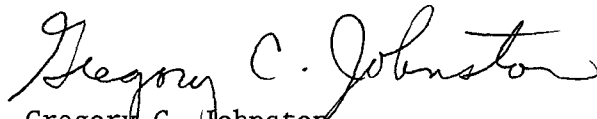
Groundwater Remediation System: SP Nos. 1-4 contained in Trench No. 1, SP Nos. 5-7 contained in Trench No. 2, SP Nos. 8-11 in Trench No. 3 and SP Nos. 12-13 in Trench No. 4; SP's 1-7 all pump into Eastside Treatment Building (see Project Map) which contains a 1500 Gallon gas/water separator and 450 Gallon water tank for separated water. Monitor weekly flow of SP's 1-7 with Hersey MVR 30/50 meters. SP's 8-11 flow into Trench No. 3 Treatment Building (see Map) which contains a 750 Gallon separator tank and 450 Gallon water storage tank, also use MVR 30/50 meters to measure flow from sumps into building. SP's 12-13 flow into RW-4/Trench No. 4 Treatment Building which contains 2 Carbon Adsorption Tanks (450 Gallons ea.). Flows into building measured off MVR 30/50 meters. All treated waters from the three buildings eventually drained into the city sewer system.

The system is in the following condition excellent. The point of diversion is located four trenches/ No.1 - SE1/4 SE1/4 Sec 14; No.2 - SE1/4 SE1/4 Sec. 14; No. 3 - SW1/4 SE1/4 Sec. 14; No. 4 - NW1/4 NE1/4 Sec. 23, all in T101N-R50W (see Appl. Map). The works are capable of diverting and conveying to the place of use 0.87 cu. ft. per second of water and/or storing acre-feet of water which is to be used for industrial use (recovery of hydrocarbons). Water has been put to beneficial use to the maximum extent as follows:

comprising a total of acres of land and the license should be issued for 0.223 cfs and/or acre-feet of storage.

Applicable permit qualifications have been complied with ☒ Yes No

Exceptions to compliance are: None Date 8/13/91



Gregory C. Johnston
Natural Resources Engineer
DENR, Water Rights Division

LICENSE FOR PERMIT NUMBER 5346-3

1. Legal location of wells:

Dams and Structures 4 Trenches/ Trench #1 - SE1/4 SE1/4 Sec 14; Trench #2 - SE1/4 SE1/4 Sec 14; Trench #3 - SW1/4 SE1/4 Sec 14; Trench #4 - NW1/4 NE1/4 Sec.23, all in T101N, R50W (see Appl. map)

2. Well Information: Well Drilling Firm N/A

Completion Report? Yes No X No. of Wells Depth(s) feet

Casing a) diameter inches Screen a) type
b) length feet b) length feet
c) type Static Water Level feet

Pump a) make Grundfus (13 pumps) Motor a) make Grundfus
b) model Sump - 25-S07 (12 pumps) 5E5 (1 pump) b) model no. same
c) size 1.5 (all) c) horsepower rating 3/4 (all)
d) capacity 30 (all) GPM d) serial no. Unknown
e) turbine pump - no. of stages 5 (all)
f) operating PSI 40 (all)

3. Distribution lines or canals

a) size 2/6/8 inches
b) type Schedule 80 PVC
c) length -6000 of 2"/6'of 6"/15'of 8" feet

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 5122-3

Yes No Check Items

N/A 1. Soil and water permit lands agree with lands being irrigated
and lands listed on permit?

Y 2. Special qualifications to permit being abided by?

Y 3. All structures, wells and lands on map?

N/A 4. Irrigation Questionnaires checked to determine if permit
owner started irrigation by end of construction period?

N/A 5. Is chemigation used?

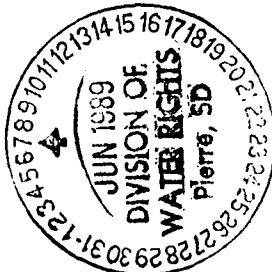
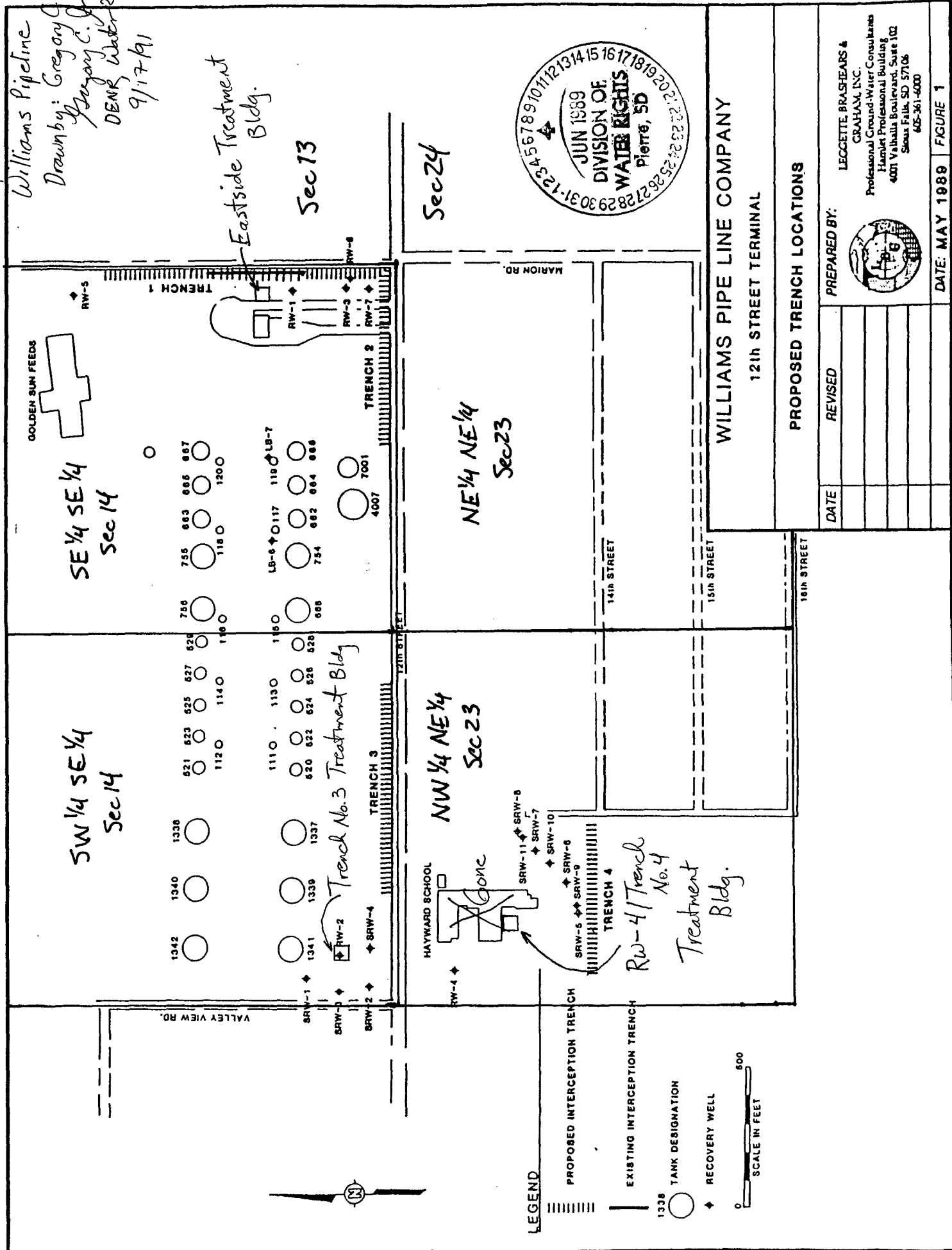
N/A 6. If yes, does equipment comply with chemigation rules?

REMARKS:

All in T101N, R50W

Appl. No. 5346-3

Williams Pipeline
Drawn by: Gregory Johnston
Gregory C. Johnston
DENR, Water Rights
9/17/91



LEGGETTE BRASHEARS &
GRAHAM, INC.
Professional Ground-Water Consultants
Hamlet Professional Building
4001 Vahlia Boulevard, Suite 102
Sioux Falls, SD 57106
605-361-6000

PROPOSED TRENCH LOCATIONS

DATE	REVISED	PREPARED BY:

DATE: MAY 1989

FIGURE 1

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5346-3

(1) Williams Pipeline Company of P.O. Box 3448, One Williams Center, Tulsa, OK 74101 made Application No. 5346-3, June 7, 1989 for a water permit to appropriate 0.223 cubic feet of water per second from groundwater (4 recovery trenches), Minnehaha County, South Dakota for industrial purposes. Permit No. 5346-3 with a priority date of August 14, 1989 was approved March 7, 1990 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before March 7, 1995 and for the application to beneficial use of said water on or before March 7, 1999.

The permit holder submitted a completion of works form on May 17, 1990 which indicated construction of the system was completed on March 15, 1989.

(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 0.223 cubic feet of water per second for beneficial use. The location of the four recovery trenches are: #1 - SE 1/4 SE 1/4; #2 - SE 1/4 SE 1/4; #3 - SW 1/4 SE 1/4, Section 14, and NW 1/4 NE 1/4 Section 23, T101N, R50W.

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use. The project consists of a trenching system to recover hydrocarbons from groundwater at the Williams Pipeline 12th Street Terminal in Sioux Falls, South Dakota.

(4) Pursuant to Section 46-5-30.1 Williams Pipeline Company of P.O. Box 3448, One Williams Center, Tulsa, OK 74101 the holder(s) and/or owner(s) of Water Permit No. 5346-3 is issued a license to appropriate water, the right to use 0.223 cubic feet of water per second from groundwater (4 recovery trenches) with a priority date of August 14, 1989 from the location specified in (2) of this license. The water is used for the purpose of industrial use (recovery of hydrocarbons). This license is subject to any limitations or qualifications listed in Water Permit No. 5346-3 and subject to South Dakota State Law.

 JUL 16 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



JUL 16 1992

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

5346-3

Williams Pipeline Company
P.O. Box 3448
One Williams Center
Tulsa, OK 74101

Dear Sirs:

Enclosed is Water License No. 5346-3. This is the final water right document completing your process of obtaining a water right. Enclosed is Receipt No. 413068 in the amount of \$50.00 which you paid for the inspection and issuance of this water license.

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

Very truly yours,

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

enclosures

5346-3



October 7, 2003

ONE WILLIAMS CENTER
PO BOX 22186
TULSA, OK 74121-2186
(918) 574-7000

Mr. Eric Gronlund
South Dakota Department of Environment and Natural Resources
Water Rights Program
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3182

RECEIVED

OCT 10 2003

WATER RIGHTS
PROGRAM

Re: Notice of Transfer of Ownership
Permit Numbers 5157-3, 5142-3, 5346-3

Dear Mr. Gronlund:

Magellan Pipe Line Company, LLC (Magellan) is the new owner of the former Williams Pipe Line Company assets in South Dakota. As a result, Magellan would like to transfer existing water rights out of the name of Williams Pipe Line Company and into Magellan's name. Enclosed are the following items to facilitate this change.

- Notice of Transfer of Ownership, Permit No. 5157-3
- Notice of Transfer of Ownership, Permit No. 5142-3
- Notice of Transfer of Ownership, Permit No. 5346-3
- Check No. 2800023198 for \$7.50 to cover the filing fee for all three requests.

Please contact me at (918) 573-9980 if you need anything else.

Sincerely,

A handwritten signature in black ink that reads "Doug Mitchell". The signature is written in a cursive, flowing style.

Doug Mitchell
Project Manager
Environmental Remediation

Enclosures

Cc: Brad Peschong, LBG-Sioux Falls Office

NOTICE OF TRANSFER OF OWNERSHIP

RECEIVED

OCT 10 2003

WATER RIGHTS
PROGRAM

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 5346-3

Date: October 2, 2003

I/We request that Water Right/Permit No. 5346-3

formerly owned by: Williams Pipe Line Company, LLC

be transferred to: (name & address) Magellan Pipe Line Company, LLC

One Williams Center, Tulsa OK 74172

Telephone No. 918.573.9980

Title to the following described land(s)/property has been transferred as described above:

Recovery trenches located in Minnehaha County, Sections 14 and 23, T101N, R50W

I/We understand that the validity of Water Right/Permit No. 5346-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We Rick A. Olson, the new owner, certify that the above information is true and correct.



(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date October 10, 20 03

RECEIVED OF Magellan Pipeline Company LLC, PO Box 22186, Tulsa OK 74121-2186

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	2	50
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 <u>5346-3</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	2.50

No.

000002

By

Darlene Elise

Chief Engineer

gjm



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 15, 2003

5142-3

5157-3

5346-3

Doug Mitchell, Project Engineer
Magellan Pipe Line Company, LLC
One Williams Center
PO Box 22186
Tulsa OK 74172

Dear Mr. Mitchell:

We have received the transfer of ownership forms and fees from you for filing ownership changes with Water Right Nos. 5142-3, 5157-3 and 5346-3. The transfers have been completed. The water rights formerly listed in the name of Williams Pipe Line Company LLC are now listed in the name of "Magellan Pipe Line Company, LLC."

Enclosed are your Receipt Nos. 000890, 000891 and 000892 in the amounts of \$2.50 each. If I can answer any questions for you, please contact me.

Sincerely,

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

enclosures

Dewell, Amanda

From: Kilts, Whitney (DENR)
Sent: Tuesday, May 21, 2024 9:41 AM
To: Dewell, Amanda
Cc: Gronlund, Eric
Subject: FW: Magellan Pipe Line Company Sioux Falls site (5142-3 & 5346-3)

5142-3 / 5346-3

Another BS:SSC.

Looks like the remediation activity associated with Water Rights 5142-3 & 5346-3 ended in 2008. Have not closely looked at all 76 pages of the plugging report file but I believe we likely have plugging reports for some to most of the recovery wells listed on the license for 5142-3.

If the company does have a reason to keep these water rights, I heavily recommend adding a reporting qualification since pumping 60% of the time if they are not required to makes no sense.

Thanks,



Whitney Kilts
Office of Water-Water Rights Program
Department of Agriculture and Natural Resources
523 E. Capitol Ave. Pierre SD, 57501
605.773.3352
danr.sd.gov

From: Walsh, Brian
Sent: Tuesday, May 21, 2024 9:29 AM
To: Kindt, Trish ; Kilts, Whitney (DENR)
Cc: Hicks, Matt
Subject: RE: Magellan Pipe Line Company Sioux Falls site

If I remember right, Magellan was going to keep a few monitor wells open to do some periodic monitoring for internal purposes but all the remediation activity stopped.

Thanks,
Brian

From: Kindt, Trish <Trish.Kindt@state.sd.us>
Sent: Tuesday, May 21, 2024 9:25 AM
To: Kilts, Whitney (DENR) <Whitney.Kilts@state.sd.us>
Cc: Walsh, Brian <Brian.Walsh@state.sd.us>; Hicks, Matt <Matt.Hicks@state.sd.us>
Subject: RE: Magellan Pipe Line Company Sioux Falls site

Whitney,

Matt is correct.

In theory, an RP could continue to use recovery wells and trenches if they wished but the department would want to know that was happening.

To my knowledge, Magellan is not using the recovery well or trenches.

When we NFA'd the site, Magellan was supposed to either properly maintain or properly abandon the wells....if they chose to abandon, they were supposed to submit documentation to the department.

Brian, is there anything you want to add?

From: Hicks, Matt <Matt.Hicks@state.sd.us>
Sent: Tuesday, May 21, 2024 7:46 AM
To: Kilts, Whitney (DENR) <Whitney.Kilts@state.sd.us>
Cc: Walsh, Brian <Brian.Walsh@state.sd.us>; Kindt, Trish <Trish.Kindt@state.sd.us>
Subject: RE: Magellan Pipe Line Company Sioux Falls site

Whitney,

If it has been granted No Further Action status by the state, most likely all recovery activities have stopped. Brian Walsh was the case manager for that release and might be able to provide more specific information. However, sometimes spill cases can be reopened or a new spill case opened (with a new case number) at sites where additional contamination is discovered or site use has changed. Trish Kindt would have more information if this has occurred at this site.

Thanks,

Matt Hicks
Environmental Scientist III, Ground Water Quality Specialist
Water Quality Program
South Dakota DANR
523 East Capitol
Pierre, SD 57501
605-773-5337 Fax: 605-773-6035

From: Kilts, Whitney (DENR) <Whitney.Kilts@state.sd.us>
Sent: Monday, May 20, 2024 4:37 PM
To: Hicks, Matt <Matt.Hicks@state.sd.us>
Subject: Magellan Pipe Line Company Sioux Falls site

Matt,

Do you know if there is still any ongoing hydrocarbon recovery and groundwater remediation happening at the Magellan Pipe Line Company Sioux Falls site (SE ¼ Sec 14-T101N-50W)?
I am trying to look into if the recovery wells and trenches associated with the attached water rights might still be in use or not, before we reach out to the company on the water rights. I did find the 2008 no additional action finding (https://danr.sd.gov/spillimages/1985_1987/1986.039_WPL%2012th%20Street%202008%20thru%201982%20.pdf), but am not seeing anything more recent suggesting that they might still be in use.

Thanks,



Whitney Kilts
Office of Water-Water Rights Program
Department of Agriculture and Natural Resources
523 E. Capitol Ave. Pierre SD, 57501
605.773.3352
danr.sd.gov



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

July 25, 2025

5142-3
5346-3

Magellan Pipeline Co., LP
c/o Becky Spence
PO Box 22186
Tulsa OK 74172

Dear Ms. Spence:

I am writing you today in regard to Water Right Nos. 5142-3 & 5346-3, both held by Maegellan Pipeline Co., LLC, for a series of wells and trenches (western Sioux Falls area), used for hydrocarbon recovery and groundwater remediation purposes.

Based on conversation with Groundwater Quality staff in our department, it appears that the remediation project ended in 2008. This is supported by a number of Well Plugging Reports being submitted on behalf of Magellan Pipeline Co., LP.

With this letter I hope to determine whether the remediation project is still in effect, if the authorized wells and trenches are still being utilized for recovery or monitoring purposes, and ultimately how the status of these water rights should be handled.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us