

WATER PERMIT NO. 7643-3

Name of Applicant: Thomas and Jaclyn Corio

Address: 47606 SD Hwy 50, Elk Point SD 57025

Phone: 712 251-2002

Amount of Water Claimed: 1.33 cfs

Total Acres: 117

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System:

Location: 12 miles northeast of Vermillion

PRIORITY

Date Received: 1-16-13

Application/License Fee: \$ 950

Corrected Application Received:

Period of Annual Use: June 1 – August 31

Remarks:

Diversion Point: NE 1/4 NW 1/4 Section 27-T93N-
R51W

Land to be Irrigated: NW 1/4, NE 1/4 SW 1/4
Section 27-T93N-R51W

Depth of Well: 180 feet deep

Well Driller:

Remarks:

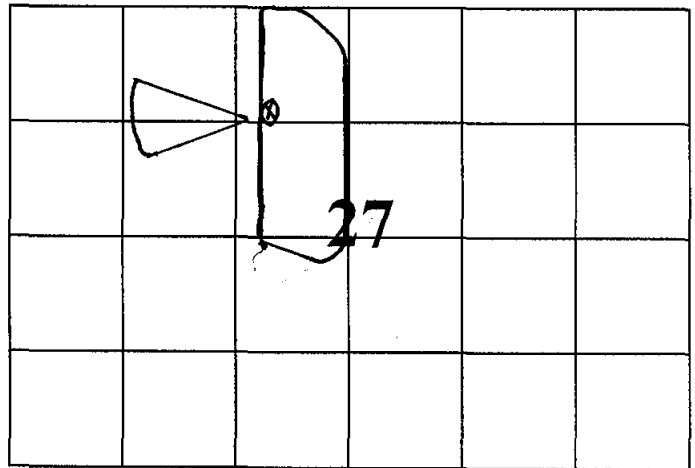
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 1-16-13

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7643-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u> <u>605-624-2695</u>
	Newspaper <u>Plain Talk</u> <u>201 W Cherry St Vermillion</u> <u>57069</u> <u>605-665-7811</u>
	<u>Press & Dakota</u> <u>319 Walnut Yankton</u> <u>57028</u>

RECEIVED

JAN 16 2013

WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____

(Use predates Mar 2, 1955)

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

1. Name to Appear on Irrigation Permit Thomas and Jaclyn Corio
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent
(name and complete address if different than above name)Mailing Address 47606 SD Hwy 50 EIK Point SD 57025
(Address) (City) (State) (Zip Code)Home Phone _____ Cell 712 251 2002 Email tjcorio@evertek.net2. Amount of water claimed 1.33 *CFS or 600 **GPM ***AF Total Acreage 117A
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)3. Source of water supply Deep Well4. Location of point of diversion 1 well in NE 1/4 of NW 1/4 Sec 27 T93 R51
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)County Clay5. County or counties where water will be used Clay6. Annual period during which water is to be used June - Aug. 317. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NE 1/4 of NW 1/4 27 93 51	33	NE 1/4 of SW 1/4 27 93 51	14
SE 1/4 of NW 1/4 27 93 51	40		
NW 1/4 of NW 1/4 27 93 51	12		
SW 1/4 of NW 1/4 27 93 51	18		

8. Give a description of the project. (Attach sheet if more space is needed)

I, Thomas Corio, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

SOUTH DAKOTA
WATER PERMIT NO. 7643-3

Date of first receipt of application January 16, 2013.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7643-3 to Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 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. 7643-3 appropriates 1.33 cubic feet of water per second from one well to be completed into the Lower Vermillion:Missouri Aquifer (180 feet deep) located in the NE 1/4 NW 1/4 Section 27 for irrigation of 117 acres located in the NW 1/4, NE 1/4 SW 1/4 Section 27; all in T93N-R51W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: June 1 – August 31.
3. The date from which applicant may claim right is January 16, 2013.
4. The date of approval of Permit No. 7643-3 is April 1, 2013.
5. One-fifth of the construction is to be completed on or before October 1, 2015.
6. All construction is to be completed on or before April 1, 2018.
7. Water is to be put to beneficial use on or before April 1, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7643-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 

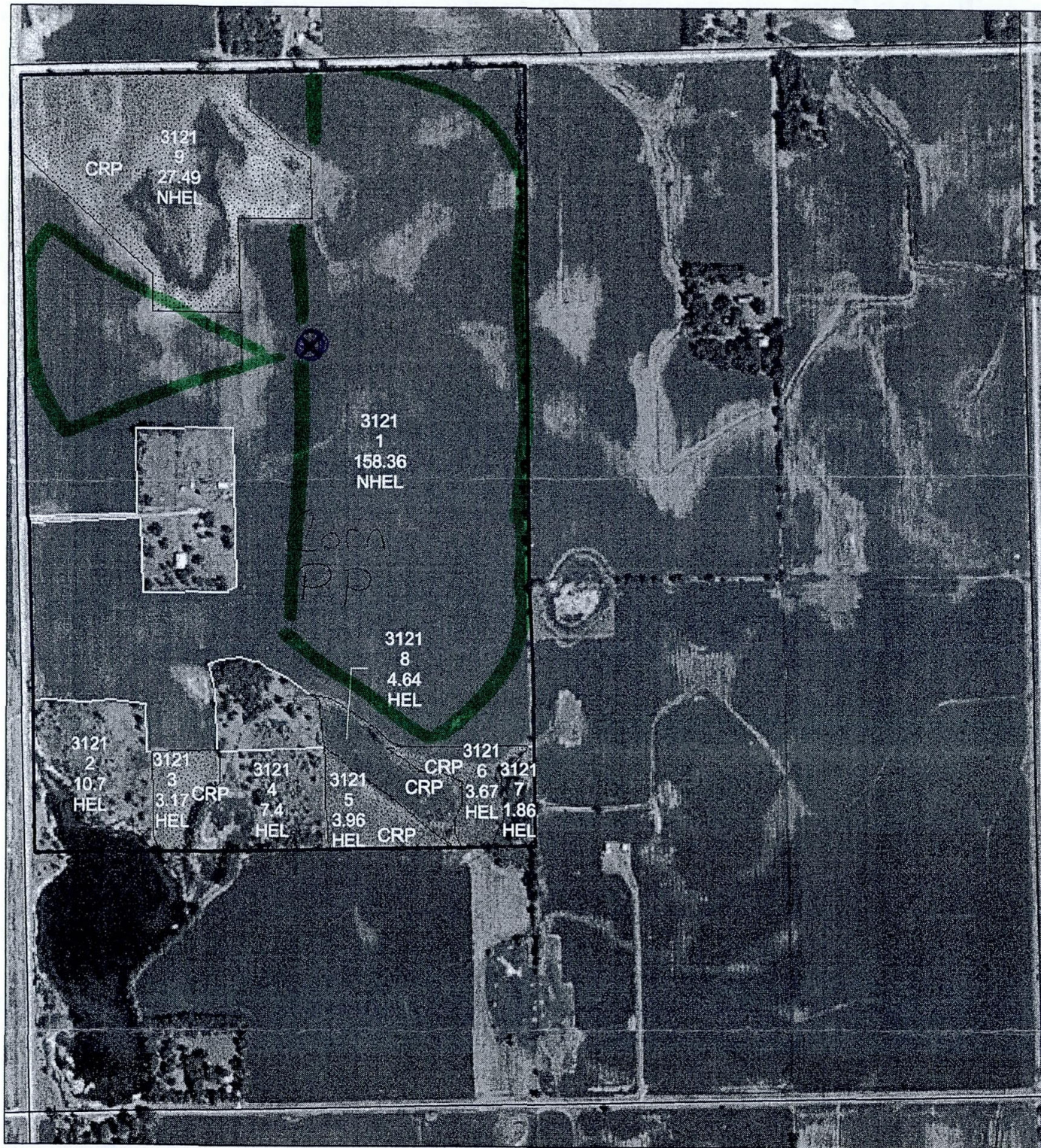
Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

MAY 17 2013

date





United States Department of Agriculture
Farm Service Agency

May 11, 2011

PLSS: 27_93N_51W
Farm: 4500

Clay County, SD
1:8,284

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JAN 16 2013
WATER RIGHTS
PROGRAM

Wetland Determination Identifiers
 ● Restricted Use
 ▽ Limited Restrictions
 □ Exempt from Conservation Compliance Provisions

Common Land Units

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

2010 Ortho-Photography - Not to Scale

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 1/16, 20 13

RECEIVED OF Thomas J Corio 47606 SD Hwy 50 Elk Point SD 57025

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

Fee for Application for Permit No. <u>7643-3</u> to Appropriate Water, to construct and to put water to beneficial use	750	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. <u>7643-3</u>	200	00
Fee for Filing Transfer Form _____		
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	950 00

No. 05976

By

John E. Ebele
Chief Engineer

Water Rights Program - File Documentation

NAME: Thomas Corio

ADDRESS: Elk Point SD 57025

DATE: 1-16-13 **COUNTY:** Clay **TELEPHONE:** 712 251-2002

RE: Pending Application

COMMENTS:

I talked with Thomas Corio and he stated the amount of water claimed should be 600 gpm. He stated he didn't realize he had omitted that info from his application.

Karen Schlaak

Karen Schlaak
Water Rights Program



**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. 7643-3, Thomas and Jaclyn Corio**

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. 7643-3, Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025.

The Chief Engineer is recommending APPROVAL of Application No. 7643-3 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. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7643-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
March 13, 2013

REPORT ON WATER PERMIT APPLICATION NO. 7643-3

**Thomas Corio
February 19, 2013**

Water Permit Application No. 7643-3 proposes to appropriate 234 acre-feet annually at a maximum diversion rate of 1.33 cubic feet of water per second from one well to be completed into the Lower Vermillion Missouri aquifer (180 feet deep) located in the NE 1/4 NW 1/4 Section 27 for irrigation of 117 acres located in the NW 1/4, NE 1/4 SW 1/4 Section 27; all in T93N-R51W. The applicant is requesting a diversion rate greater than the statutory limit. This project is located approximately 8.5 miles northeast of the town of Vermillion in Clay County.

AQUIFER: Lower Vermillion Missouri (LVM)

GEOLOGY AND AQUIFER CHARACTERISTICS:

Test hole information was not submitted with this permit application. However, sufficient data is available through well completion reports (Water Rights, 2013c), water right/permit files (Water Rights, 2013b), and SD DENR-Geological Survey test hole logs (SDGS, 2013) to evaluate this application. The Lower Vermillion Missouri aquifer is a buried outwash (sand and gravel) aquifer that is under confined conditions in the area of this application, but also has portions under unconfined conditions (Stephens and Christensen, 1967). The aquifer underlies approximately 125,600 acres and contains an estimated 1.9 million acre-feet of recoverable water in storage in Clay and Union counties (Hedges et al., 1982). The aquifer blends into the Missouri: Elk Point aquifer to the south and into the Upper Vermillion Missouri aquifer to the north. This aquifer is also hydraulically connected to the Vermillion River and the Parker-Centerville aquifer.

SDCL 46-2A-9:

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights from the aquifer.

WATER AVAILABILITY:

This application proposes to appropriate 234 acre-feet annually from the Lower Vermillion Missouri aquifer. Although the actual water use if this application is approved will most likely be less than 234 acre-feet/year. The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1 which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.

Observation Well Data:

Administrative Rule of South Dakota Section 74:02:05:07 requires that "the Water Management Board shall rely upon the record of observation well measurements to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer."

The DENR-Water Rights Program monitors 12 observation wells completed into the Lower Vermillion Missouri aquifer (Water Rights, 2013a). The nearest observation well is CL-80F located 0.75 miles to the northeast from the proposed well site. The water levels rise (recharge) during wet years and gradually decline during dry years. The hydrograph shows that over the period of record water levels have held fairly constant. The effect of well withdrawals does not appear to be significant over the period of record. The climatic effects on the water level greatly mask the temporal impacts of well withdrawal. Therefore, recharge to and natural discharge from the Lower Vermillion Missouri aquifer significantly exceeds pumping. Considering the observation well data, there is a reasonable probability that there is unappropriated water available from the Lower Vermillion Missouri aquifer. Figure 1 is the hydrograph for observation well CL-80F.

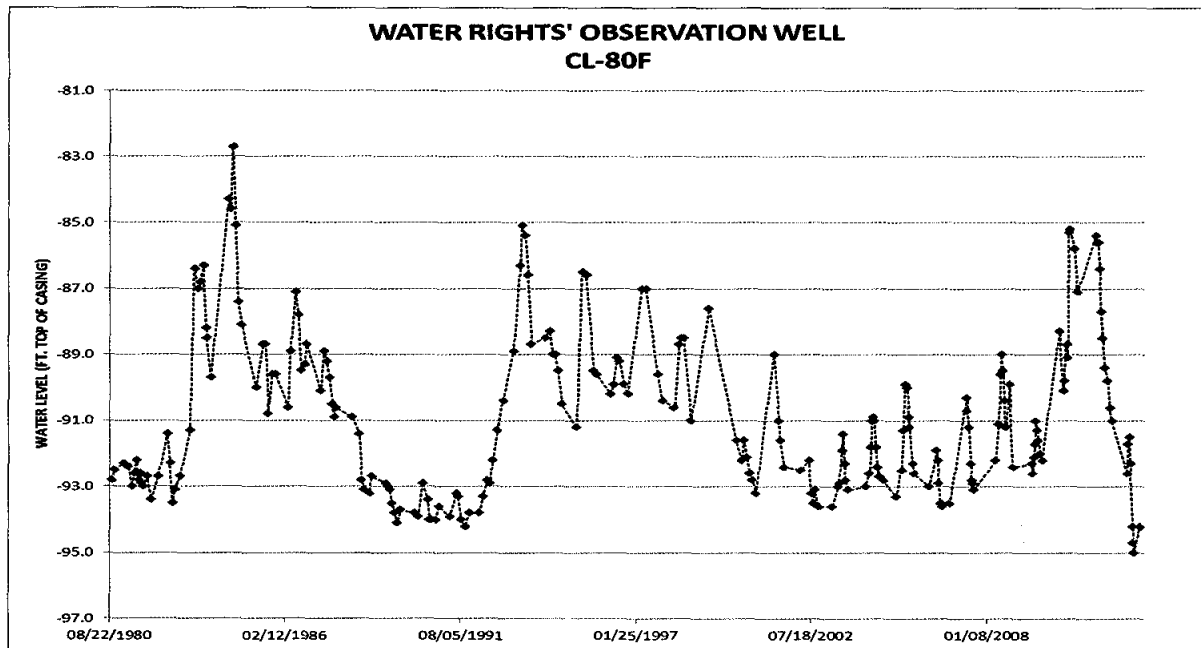


Figure 1- Hydrograph of DENR-Water Rights' observation well CL-80F, located approximately 0.75 miles northeast of the proposed well location (Water Rights, 2013a).

Recharge versus Withdrawals:

Recharge:

Recharge to the Lower Vermillion Missouri aquifer is due to infiltration of precipitation in areas where the aquifer is near land surface, inflow from the Upper Vermillion Missouri aquifer, and leakage from the underlying Dakota aquifer.

Hedges and others (1985) estimated recharge to the unconfined portion of the Lower Vermillion:Missouri aquifer, based on observation well data, to be 3.8 inches per year. Total recharge has not been estimated for the aquifer. However, Hedges and others (1985) stated, "for management and development programs the minimum recharge rate to confined aquifers is estimated to be 0.15 inches per year and the maximum rate is 0.60 inches per year."

Discharge:

Discharge from the Lower Vermillion Missouri aquifer occurs due to evapotranspiration in areas where the aquifer is near land surface, outflow to the Missouri: Elk Point aquifer, outflow to the Vermillion River during periods of low flow, outflow to the aquifer to Union County, and well

withdrawals from rural water systems, institutional use, and irrigation. Currently there are a total of 68 water rights/permits appropriating water from the Lower Vermillion Missouri aquifer, with 56 of these in Clay County (Water Rights, 2013b).

In addition, there are many completion reports on file with the SD DENR-Water Rights Program in Clay and Yankton Counties for domestic wells that appear to be completed into the Lower Vermillion Missouri aquifer (Water Rights, 2013c). The annual withdrawal due to domestic use is not significant to the hydrologic budget of the aquifer.

From the Lower Vermillion Missouri aquifer, water rights/permits for non-irrigation use that are limited only by diversion rate currently appropriate a total of 2.06 cfs. Water rights/permits for non-irrigation use that are limited by an annual volume currently appropriate a total of 307 ac-ft/yr (Water Rights, 2013b). The amount of water that can be expected to be withdrawn by the non-irrigation use water rights/permits at the current appropriation amount can be estimated by assuming water rights/permits limited by an annual volume will pump the entire volume appropriated annually and water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time. Therefore, the total annual withdrawal from the Lower Vermillion Missouri aquifer by non-irrigation use is currently expected to total at maximum 1,203 ac-ft/yr (Water Rights, 2013b). The water withdrawal from the Lower Vermillion Missouri aquifer for irrigation, as reported to the DENR- Water Rights Program through annual irrigation questionnaires, is shown in figure 2.

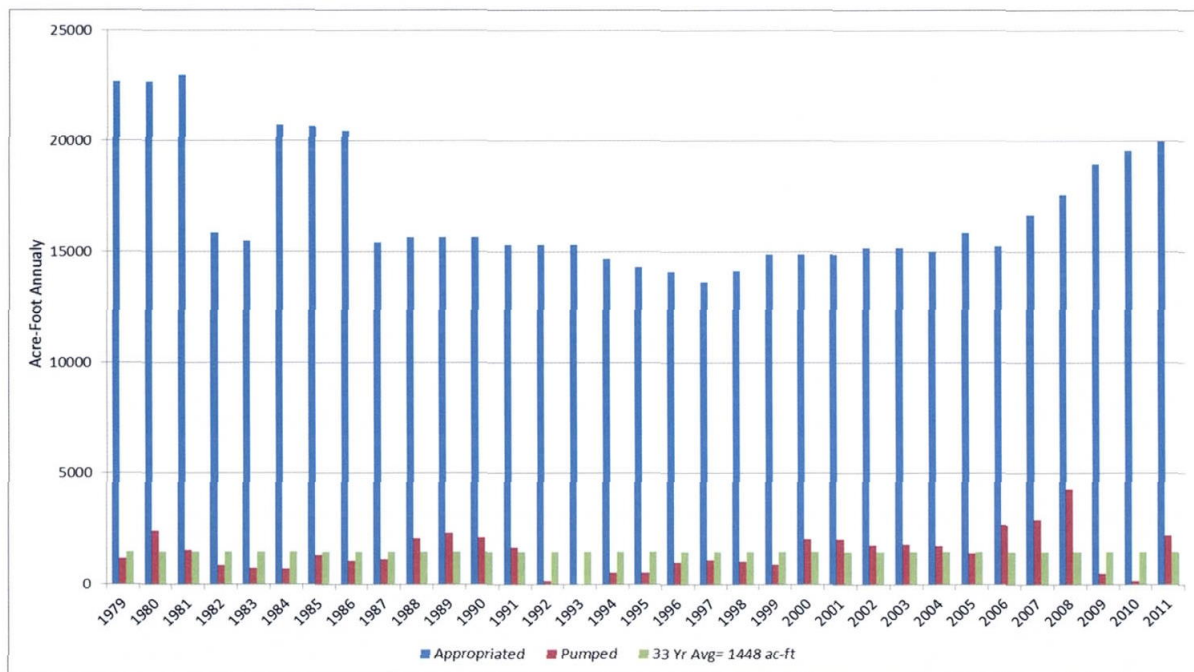


Figure 2- Irrigation water use from the Lower Vermillion Missouri aquifer (Water Rights 1979-2011).

Total estimated average annual withdrawal, including non-irrigation use, is 2,045 acre-feet per year from the Lower Vermillion Missouri aquifer. The observation well hydrograph shows that the water level in the aquifer has remained relatively constant despite changes in annual water use and appropriations. The recharge required to have annual recharge equal annual withdrawal is 0.25 inches per year. If this application is approved, the additional withdrawal will not significantly increase the recharge required to push it out of the range suggested by Hedges and

others (1985). Therefore, there is a reasonable probability that unappropriated water is available from in the Upper Vermillion Missouri aquifer.

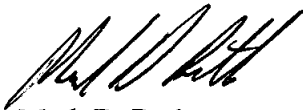
EXISTING WATER RIGHTS:

There is one water permit No. 6951-3 for a well to irrigate 150 acres at a diversion rate of 2.14 cfs, and six domestic wells located within two miles of the proposed well site on file with the SD DENR-Water Rights Program (Water Rights, 2013b).

Well interference may occur but it is not expected to be significant due to the distance between the wells. Water Management Board rules 74:02:04 and 74:02:05, which were promulgated pursuant to SDCL 46-6-6.1, provide protection for existing wells only to the degree necessary to maintain an adequate depth of water in wells that have the ability to produce water independent of artesian pressure. Hence, the pump placement in a prior appropriator's well is not necessarily protected. The Water Management Board, in the past, has concluded that if increased cost or decreased production is considered an adverse impact, it could be in conflict with SDCL 46-1-4. South Dakota Codified Law 46-1-4 requires South Dakota's water resources to be put to beneficial use to the fullest extent of which they are capable. Therefore, well interference is not likely to adversely impact existing appropriative or domestic users.

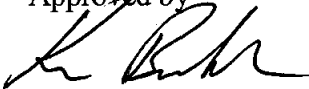
CONCLUSIONS:

1. This application proposes to appropriate 234 acre-feet annually for the irrigation of 117 acres, but the amount of water that actually will be used is expected to be less than 234 acre-feet annually.
2. There is a reasonable probability that unappropriated water is available from the Lower Vermillion Missouri aquifer to supply this proposed diversion.
3. There is a reasonable probability that the diversion rate requested by this application can be made without adversely affecting existing water rights and domestic use.



Mark D. Rath
Natural Resources Engineer
SD DENR-Water Rights Program

Approved by



Ken Buhler
Natural Resources Engineer
SD DENR-Water Rights Program

REFERENCES:

- Hedges, L.S., J. Allen, and D.E. Holly. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge, Final Report. U.S. Army Corps of Engineers. Omaha, Nebraska. Contract DACW 45-80-C-0185.
- Hedges, L.S., S.L. Burch, D.L. Iles, R.A. Barari, and R.A. Schoon. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Stephens, J.C. and C.M. Christensen. 1967. Geology and Water Resources of Clay County, South Dakota Part II. Bulletin 19. SD-DENR Geological Survey. Vermillion, South Dakota
- SDGS. 2013. Lithologic Logs Database. < <http://sddenr.net/lithdb/>>. SD DENR-Geological Survey. Vermillion, SD.
- Water Rights. 1979-2011. "1979-2011 Irrigation Summaries by Aquifer": SD DENR-Water Rights Program, Joe Foss Building, Pierre, SD.
- Water Rights. 2013a. Observation Well Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.
- Water Rights. 2013b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.
- Water Rights. 2013c. Water Well Completion Report. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.

NOTICE OF APPLICATION
NO. 7643-3 to Appropriate
Water

RECEIVED

APR - 1 2013

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

PLAIN TALK

DENR
Division of Environmental Services
Water Rights Program
Joe Foss Building, 523 East Capitol
Pierre, SD 57501

STATE OF SOUTH DAKOTA
COUNTY OF CLAY

TERA SCHMIDT BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT SHE IS THE CLASSIFIED MANAGER OF YANKTON
MEDIA INC., A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
PLAIN TALK, A LEGAL WEEKLY NEWSPAPER PUBLISHED AND CIRCULATED
IN THE CITY OF VERMILLION, SAID COUNTY AND STATE, AND ONE OF THE
OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN THIS
AFFIDAVIT; THAT THE ANNEXED
NOTICE OF APPLICATION TO APPROPRIATE WATER

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 22 DAY OF MARCH 2013
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$27.31 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 3/22/13

FILED ON: 3/22/13

SUBSCRIBED AND SWORN TO BEFORE ME THIS

26th

DAY OF

March

NOTARY PUBLIC SOUTH DAKOTA

MY COMMISSION EXPIRES

8/19/2015

Notice is given that Thomas and
Jaclyn Corio, 47606 SD Hwy 50,
Elk Point SD 57025 has filed an
application for a water permit to
appropriate 1.33 cubic feet of wa-
ter per second from one well to be
completed into the Lower Vermil-
lion-Missouri Aquifer (180 feet
deep) located in the NE 1/4 NW
1/4, Section 27 for irrigation of
117 acres located in the NW 1/4,
NE 1/4 SW 1/4 Section 27; all in
T93N-R51W.

Pursuant to SDCL 46-2A-2, the
Chief Engineer recommends AP-
PROVAL of Application No.
7643-3 because 1) unappropriated
water is available, 2) existing
rights will not be unlawfully im-
paired, 3) it is a beneficial use of
water, and 4) it is in the public in-
terest. In accordance with SDCL
46-2A-23, the Chief Engineer will
act on this application as recom-
mended, unless a petition is filed
opposing the application or the
applicant files a petition contest-
ing the Chief Engineer's recom-
mendation. 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 oppos-
ing 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 Engi-
neer'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 inter-
ested person or the applicant must
be filed by April 1, 2013.

The petition may be informal,
but must include a statement de-
scribing the petitioner's interest in
the application, the petitioner's
reasons for opposing or support-
ing the application, and the signa-
ture and mailing address of the
petitioner or the petitioner's legal
counsel, if legal counsel is ob-
tained. Contact Eric Gronlund at
the above Water Rights Program
address to request copies of infor-
mation pertaining to this applica-
tion. Steven M. Pirner, Secretary,
Department of Environment and
Natural Resources.

Published once at the total ap-
proximate cost of \$27.31.

Published: March 22, 2013

RECEIVED

MAR 25 2013

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

YANKTON DAILY PRESS AND DAKOTAN

3+22

NOTICE OF APPLICATION
NO. 7643-3 to Appropriate Water

Notice is given that Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 has filed an application for a water permit to appropriate 1.33 cubic feet of water per second from one well to be completed into the Lower Vermilion: Missouri Aquifer (180 feet deep) located in the NE 1/4 NW 1/4 Section 27 for irrigation of 117 acres located in the NW 1/4, NE 1/4 SW 1/4 Section 27, all in T93N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7643-3 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. 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 April 1, 2013.

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 \$ 25.82.

Department of Environment and Natural Resources
PMB 2020
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

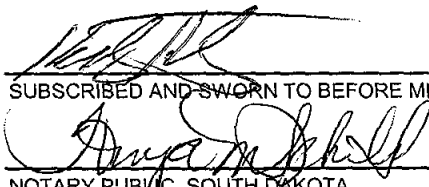
STATE OF SOUTH DAKOTA
COUNTY OF YANKTON

KELLY HERTZ BEING FIRST DULY SWORN ON OATH DEPOSES AND SAYS THAT HE IS THE MANAGING EDITOR OF, YANKTON MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE YANKTON DAILY PRESS AND DAKOTAN, A LEGAL DAILY NEWSPAPER PUBLISHED AND CIRCULATED IN THE CITY OF YANKTON, SAID COUNTY AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE ANNEXED **Notice of Application No. 7643-3**

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE NEWSPAPER ON THE 22nd DAY OF March 2013 THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION OF SAID **NOTICE** TO WIT \$25.82 ENSURES TO THE BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 3/22/2013

FILED ON: 3/22/2013

SUBSCRIBED AND SWORN TO BEFORE ME THIS 22nd DAY OF March 2013

NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 8/19/2015



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

March 13, 2013

Plain Talk
201 W Cherry St
Vermillion SD 57069

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7643-3 to Appropriate Water. Please publish the notice once on March 22, 2013. 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 Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 (Ph # 712-251-2002).

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

March 13, 2013

Press & Dakotan
319 Walnut
Yankton SD 57078

ATTENTION: Legal Public Notice

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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.

March 13, 2013

Thomas and Jaclyn Corio
47606 SD Hwy 50
Elk Point SD 57025

Dear Sir:

Water Permit Application No. 7643-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Plain Talk printed at Vermillion SD (Ph # 605-624-2695) and the Press & Dakotan printed at Yankton SD (Ph # 605-665-7811). 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 March 22, 2013. 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. 7643-3 to Appropriate Water

Notice is given that Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 has filed an application for a water permit to appropriate 1.33 cubic feet of water per second from one well to be completed into the Lower Vermillion:Missouri Aquifer (180 feet deep) located in the NE 1/4 NW 1/4 Section 27 for irrigation of 117 acres located in the NW 1/4, NE 1/4 SW 1/4 Section 27; all in T93N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7643-3 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. 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 April 1, 2013.

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

MAY 17 2013

Thomas and Jaclyn Corio
47606 SD Hwy 50
Elk Point SD 57025

Dear Sir:

Enclosed is Water Permit No. 7643-3 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,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

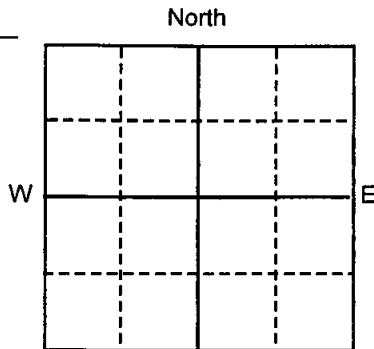
SD EForm - 1621LD V1

11-02

Location NW 1/4 SW 1/4 Sec 27 Twp 93N Rg 51W

County Clay

Please mark well location with an "X"



Well Completion Date

August 1, 2013

← 1 Mile →

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
50.0 ft. from septic (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>12.00</u> IN	<u>0.0</u> FT	<u>160.0</u> FT	<u>18.00</u> IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Bentonite</u>	<u>41</u>	Lb/gal	<u>0.0</u> Ft	<u>158.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie piped

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12.00 Inches Length 20.0 Feet

Material stainless steel

Slot Size .070 Set From 160.0 Feet to 180.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? chlorinated

☐ No, Why Not?

Lab to which water quality sample sent for analysis

n/a

Well Owner: Tom Corio

Business Name:

Address: 47606 SD Hwy 50

City, State, Zip: Elk Point SD 57025

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
Brown clay	2	65
Sand & gravel	65	69
Gray clay	69	72
Sand & gravel	72	101
Gray clay	101	117
Rock	117	118
Gray clay	118	134

continued on next page

STATIC WATER LEVEL 92.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: pump not installed, no test pumping done.
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

GPS: N 42 50.560
W 96 51.614

RECEIVED

SEP 30 2013

WATER RIGHTS
PROGRAM

This well was drilled under license # 475 and this report is true and accurate.

Drilling firm: Thein Well Co., Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

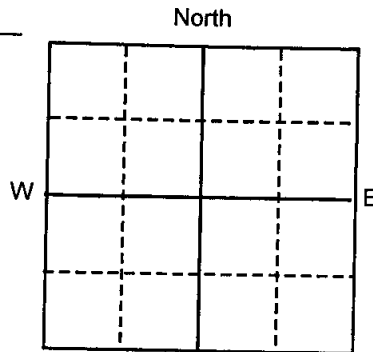
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ SW ¼ Sec 27 Twp 93N Rg 51W

County Clay

Please mark well location with an "X"



Well Completion Date

August 1, 2013

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
ft. from _____ (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

CASING DATA:

☐ Steel ☐ Plastic ☐ Other
 If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	Ft	Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
remie piped

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☐ No
 If so, what material? _____
 Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? chlorinated
☐ No, Why Not? _____

 Lab to which water
 quality sample sent for analysis
 1/a _____

Well Owner: Tom Corio

Business Name: _____

Address: 47606 SD Hwy 50

City, State, Zip: Elk Point SD 57025

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Soft rock	134	136
Gray clay	136	140
Sand	140	146
Gray clay	146	149
Sand	149	151
Gray clay	151	154
Sand & gravel	154	183
Gray clay	183	187
Hard boulder	187	187

STATIC WATER LEVEL

_____ FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: _____☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

GPS: N 42 50.560

W 96 51.614

RECEIVED

SEP 30 2013

WATER RIGHTS
PROGRAM

This well was drilled under license # 475 and this report is true and accurate.

Drilling firm: Thein Well Co., Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

7643-3

SD EForm - 1311LD V1

Form 10

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

MAIL TO: PMB 2020

Date 11-17-17

DENR - Water Rights Program

523 E Capitol Ave

Pierre, SD 57501-3182

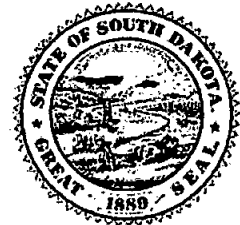
ph. (605) 773-3352

FROM: Tom Corio
(name)47606 SD Hwy 50
(address)EIK Point SD 57025
(city) (state) (zip)712 251 2002
(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. 7643-3 states that the water use system is to be constructed byApril 1, 2018, and water is to be put to beneficial use by April 1, 2022
(date) (date)The water use system was completed on Sept, 2014
(date)Applying the water to beneficial use was completed on July, 2015
(date)

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



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7643-3

I have this day, November 17, 2017, made a thorough examination of the water use system constructed by Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 of Permit No. 7643-3, bearing the priority of January 16, 2013 authorizing the diversion of 1.33 cu. ft. per second of the waters of Lower Vermillion:Missouri Aquifer for irrigation purposes, of 117 acres, in Clay County.

Inspection contact & relationship **Thomas Corio, permit holder**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Thein Well Co., Inc.
- 2) No. of Wells 1
- 3) Depth(s) 180 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 12 inches
- 2) Length 160 feet
- 3) Type PVC

Screen:

- 1) Type Stainless Steel Manufactured
- 2) Length 20 feet
- 3) Static water level 92 feet

Pump:

- 1) Make Preferred Pump Submersible
- 2) Model 8FP700D500-3
- 3) Capacity 700 GPM

Motor:

- 1) Make Preferred Pump Submersible
- 2) Model No. 6F50463
- 3) Horsepower rating 50 hp

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

- 1) Type PVC 2) Size 8 inches 3) Length 1330 feet

Comments: See map for approximate location.

C. Works used to apply water to beneficial use:

Center pivot (NW ¼ Sec 27-T93N-R51W):

- 1) Make Lindsay
2) Overall length 1301 feet
3) Number of towers 7
4) End gun Yes
5) Capacity 700 GPM

Center pivot (S ½ NW ¼ & NE ¼ SW ¼ Sec 27-T93N-R51W):

- 1) Make Lindsay
2) Overall length 1301 feet
3) Number of towers 7
4) End gun Yes
5) Capacity 700 GPM

Comments: Water Permit No. 7643-3 appropriates 1.33 cfs or 600 gpm, however 1.56 cfs or 700 gpm was developed. Permit holder is going to reduce diversion rate to 1.33 cfs or 600 gpm by reducing system pressure.
System is set up so that only one center pivot can be operated at a time.

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes, began irrigating in 2015.
3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in **good** condition with the point(s) of diversion located as follows: **East 1320', North 2620' from SW Corner of Sec 27-T93N-R51W; Lat 42.84451/Long -96.86020; NW ¼ SW ¼ Sec 27-T93N-R51W.**
2. The works are capable of diverting and conveying to the place of use **1.33 cfs or 600 gpm** of water which is to be used for **irrigation**. Water has been put to beneficial use to the maximum extent as follows:

All land is located in **Sec 27-T93N-R51W.**

NW ¼ NW ¼ - 7 ac

NE ¼ NW ¼ - 32 ac

SW ¼ NW ¼ - 18 ac

SE ¼ NW ¼ - 39 ac

NE ¼ SW ¼ - 19 ac

comprising a total of **115** acres of land and the license should be issued for **1.33 cfs or 600 gpm.**

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

F. Comments or other permit(s) associated with the project:

Provide detailed explanation when multiple permits are involved or any discrepancy between what the permit was issued for and what was developed.

Water Permit No. 7643-3 appropriates 1.33 cfs or 600 gpm, however 1.56 cfs or 700 gpm was developed.

Permit holder is going to reduce diversion rate to 1.33 cfs or 600 gpm by reducing system pressure.

Water Permit No. 7643-3 was issued to irrigate 117 acres, however, only 115 acres are actually irrigated.

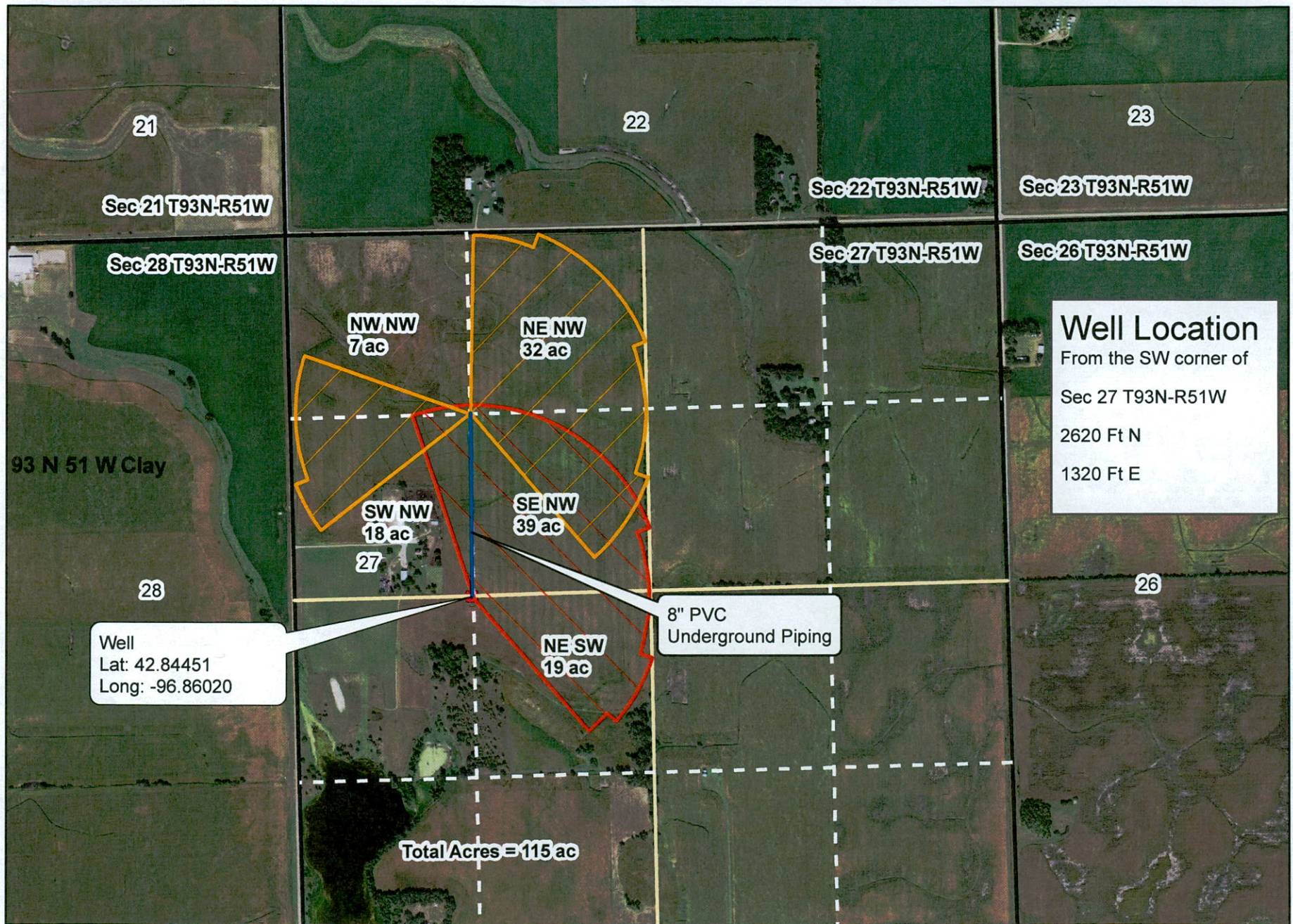
Permit holder walks center pivot through CRP ground in NW ¼ NW ¼ Sec 27-T93N-R51W. Fifteen acres are overlapped between the two center pivots.

Harold Holoch

Harold Holoch, PE
Staff Engineer
DENR, Water Rights Program

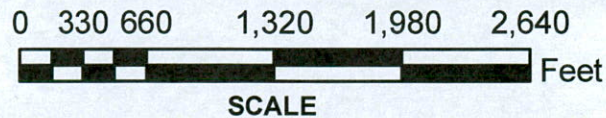
Date report completed: **September 7, 2018**

7643-3



Well Location

From the SW corner of
Sec 27 T93N-R51W
2620 Ft N
1320 Ft E



Harold Holoch
Harold Holoch, PE
Staff Engineer
April 19, 2018

Approval of Location Change to Diversion Point

NAME: Thomas and Jaclyn Corio

ADDRESS: 47606 SD Hwy 50, Elk Point SD 57025

DATE: September 20, 2018 **COUNTY:** Clay **TELEPHONE:**

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

The water permit was issued for the well to be located in the NE ¼ NW 1/4 of Section 27-T93N-R51W and the licensing investigation found the well is actually located in the NW ¼ SW 1/4 of this section. The well is approximately 1,320 feet to the south of its originally intended location.

- **Developed water source same as permitted source and no additional water appropriated**

The water source remains Lower Vermillion:Missouri aquifer. Water Permit No. 7779-3 appropriated 1.33 cfs. The works were capable of producing 1.56 cfs but Mr. Corio expressed his intent to reduce the diversion to the permitted 1.33 cfs amount.

- **If irrigation, no new land is irrigated**

No additional land is irrigated. The permit authorized 117 acres and the licensing investigation found 115 acres being irrigated.

- **Review of Existing Diversions**

The nearest water right is approximately one mile to the northeast of the well authorized by Permit no. 7643-3. This change a diversion point moves the two wells farther apart. Given the characteristics of the Lower Vermillion:Missouri aquifer there will not be the potential for interference with existing diversions. The system has been developed for three irrigation seasons and there has been no report of impairment.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion point be licensed as developed.



Eric Gronlund, Engineer III
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change in location does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

SEP 26 2018

7643-3

Thomas & Jaclyn Corio
47606 SD Hwy 50
Elk Point SD 57025

Dear Mr. & Mrs. Corio:

Enclosed is Water License No. 7643-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

A handwritten signature in cursive script that reads "Jeanne Goodman".

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

enclosures

NOTE: The investigation found your irrigation system is capable of diverting 1.56 cubic feet of water per second (cfs) which is equivalent to approximately 700 gallons per minute. Use of water under No. 7643-3 is limited to 1.33 cfs or 600 gpm.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7643-3

(1) Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 made Application No. 7643-3, January 16, 2013 for a water permit to divert 1.33 cubic feet of water per second from ground water, one well (Lower Vermillion Missouri Aquifer), Clay County, South Dakota for irrigation purposes. Permit No. 7643-3, with a priority date of January 16, 2013 was approved April 1, 2013 and issued to the applicants for diversion of water with construction of the described water supply system to be completed on or before April 1, 2018 and for the application to beneficial use of water on or before April 1, 2022.

An investigation for licensing purposes found the diversion point location was developed 1,320 feet south of the permitted location. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the change in location of the diversion point did not increase the potential for adverse effects to existing diversions.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the water supply system and are entitled to divert 1.33 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,320'E and 2,620'N of the SW Corner of Section 27, T93N, R51W (NW ¼ SW ¼)
Latitude 42.84451, Longitude -96.86020

(3) The permit holders have complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T93N, R51W Section 27	NW ¼ NW ¼	7 acres	NE ¼ SW ¼	19 acres
	NE ¼ NW ¼	32 acres		
	SW ¼ NW ¼	18 acres		
	SE ¼ NW ¼	39 acres		
			Total 115 acres*	

* No. 7643-3 was issued to irrigate 117 acres, however due to overlap of the two center pivots, only 115 acres are actually irrigated.

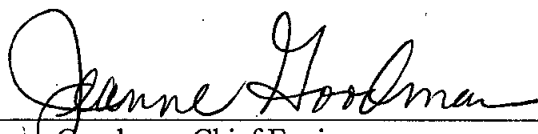
(4) Pursuant to South Dakota Water Law 46-5-30.1 Thomas and Jaclyn Corio, 47606 SD Hwy 50, Elk Point SD 57025 the holders and/or owners of Water Right No. 7643-3 are issued a license to appropriate water, the right to use 1.33 cubic feet of water per second from ground water, one well (Lower Vermillion Missouri Aquifer) with a priority date of January 16, 2013 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7643-3 and subject to the following qualifications:

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

continued

- The well authorized by Permit No. 7643-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The well was drilled by Thein Well Company, Inc. in August, 2013. A copy of the well completion report is on file with the Water Rights Program.*
- This Water Right is subject to the irrigation water use questionnaire being submitted each year.



Jeanne Goodman, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

SEP 26 2018

date

