

Considered: ' ' _____

WATER PERMIT NO. 2056-2

MAP No. same 348-1731

Name of Applicant Countryside Subdivision

Post Office Address 1617 Sheridan Lake Rd., Rapid City SD 57702

Amount of Water Claimed no add'l Total Acres NA

Source of Water Supply ground water 1 alternate well

Water to be used for S.H.D. County Pennington

About 4 miles S of Rapid City.

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY Date Received May 20 1988 Fee 50⁰⁰ Remarks _____

standby well (additional diversion point)

Corrected Application Received June 2, 1988 Period of Annual Use Jan 1 - Dec 31

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

WI-1 Description same as Application YES NO REMARKS

Diversion Point well: NE $\frac{1}{4}$ SW $\frac{1}{4}$ section 29-

TIN-R7E

Land to be Irrigated NA

		29 new well ⊗			
		existing well ⊗			

Well Log: Driller _____ Licensed YES _____ NO _____

Depth of Well: 980 feet REMARKS

Type of Map plat PREPARED BY Jimmy Hilron Reviewed and the Number

assigned on June 3 1988 By Ron Savall

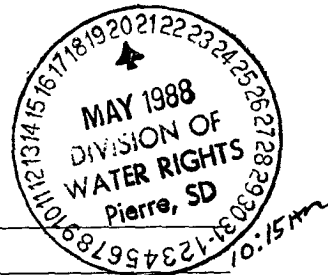
No. 2056-2 Hydrologic Unit 10120110
 Map No. same Basin Upper Cheyenne R
 Newspaper Rapid City Journal, PO Box 450

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 No. _____
☐ Construction to use water reserved by Future Use Permit No. _____



1. Name of Applicant Countryside Subdivision Phone No. 348-1731
 Post Office Address 1617 Sheridan Lake Rd., Rapid City, S.D. State 57702
(Street, RR or Box) (City) Zip Code
 2. Amount of water claimed (c.f.s.) ~~1~~ No additional
 3. Source of water supply Well - (SW 1/4 Sec. 29, T1N, R7E, BHM)
 4. Location of point of diversion (NE 1/4 SW 1/4)

- County Pennington
 5. Counties where water will be used Pennington
 6. Annual period during which water is to be used Year Around 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)

This will be a second well to be used as an alternate for the existing well drilled in 1981 under permit No. 1749-2.

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

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

I, Dennis Catron 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 Dennis Catron

Subscribed and sworn to before me this 19 day of May 1988

Harold Dinger
 Notary Public

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 8 3/4" Depth 980 feet
- b) Casing Type Steel Diameter 7" Thickness 3/8"
- c) Screen Type -0- Diameter -0- Thickness -0-
- d) Gravel Pack Thickness None Length of Gravel Pack -0-
- e) Depth to Top of Water Bearing Material 300'
- f) Depth to Water (ground surface to water level) 300'
- g) Distance to nearest existing domestic well:
On applicants property 1,400' On property owned by others 2,500'

2. Dugout Information Estimates

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

3. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

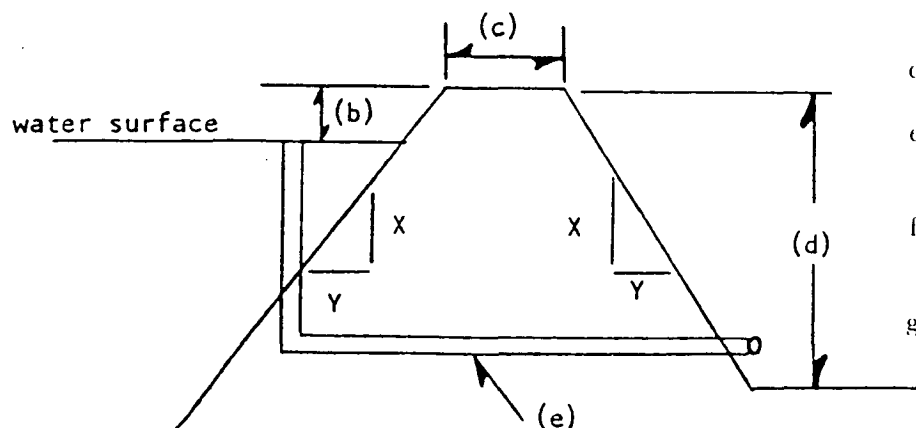
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant

**SOUTH DAKOTA
WATER PERMIT**

Date of first receipt of application May 20, 1988

Date of return to applicant for correction, amendments or changes required May 23, 1988

Date of receipt of corrected application June 2, 1988

The Water Management Board approved Water Permit Application No. 2056-2
on July 27, 1988 for the Countryside Subdivision
(Applicant)

1617 Sheridan Lake Road
(Street, RR or Box)

Rapid City
(City)

South Dakota
(State)

57702
(Zip Code)

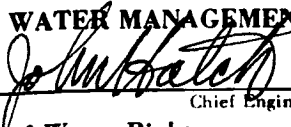
authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 2056-2 authorizes construction of one well 980 feet deep in the Deadwood Formation to be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29, T1N, R7E. This permit appropriates no water in addition to the 0.30 cubic feet of water per second from one well authorized by Water Permit No. 1749-2. The first well has a radionuclide problem and will be used as a back up.
2. The water appropriated shall be used for the purpose of supplying the Countryside Subdivision
and may not exceed the amount of water needed for beneficial use for Suburban housing development 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 the right is May 20, 1988
5. One-fifth of the construction is to be completed on or before January 27, 1991
6. All construction is to be completed on or before July 27, 1993
7. Water is to be put to beneficial use on or before July 27, 1997
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 authorized by Permit No. 2056-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.
3. Combinations of diversions under Permits No. 2056-2 and 1749-2 may not exceed 0.30 cfs.

WATER MANAGEMENT BOARD

By: 
Chief Engineer

Division of Water Rights
Dept. of Water and Natural Resources

DEC 1 1988



Department of Water & Natural Resources

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

SEP 28 1983

September 26, 1983

Bob Knecht
Builders Development Group, Inc.
Box 1636
Rapid City, South Dakota 57709

Dear Mr. Knecht:

Enclosed is a copy of "Report on Investigation of Water Supply Problem Complaint Against Countryside Development Permit No. 1749-2". Within the next several months, we expect to install an observation well in the complaint area with a continuous recorder to measure area Deadwood Formation water levels. The water level information will be useful in the event of future complaints, to help determine any water level effects from pumping under existing water permits and to help determine if additional permits can be approved.

Please let us know if you have questions on the Report.

Very truly yours,

John Hatch, Chief Engineer
Water Rights Division
Phone: (605) 773-3352

cc: Lee Olson
630 E. Meade
Rapid City, SD 57709

Equal Opportunity Employer

Report On Investigation of
Water Supply Problem Complaint
Against Countryside Development
Permit No. 1749-2
September 15, 1983

Water Permit No. 1749-2, Builder's Development Group, Inc. was approved March 25, 1981 to supply 0.3 cubic feet per second (135 gallons per minute) of water from one well (Deadwood Formation) for Countryside Development. A complaint letter dated July 20, 1983 was received July 26, 1983 from Joan Harrison concerning water supply problems in the Harrison well located southwest of Rapid City. This report is of an investigation conducted in the area by Division of Water Rights Engineer, Frank Smith, August 3-5, 1983. Mrs. Harrison claimed that pumping by Countryside Development was causing interference problems. A copy of her letter is attached.

The following people were contacted during the investigation:

Bob Wermers - Administrator, Pennington County Health Department
Clarence and Joan Harrison
Ray Johnson
Marcia Dunsmore - Colonial Village Water Company
Karen Nelson - Whispering Pines Water Association
Bob Knecht - Builder's Development Group, Inc.
Kathy Peters - USGS Hydrologist
Mrs. William Colson - Spring Canyon Estates Water Assoc.
Ralph Taylor - Taylor Drilling Co.

Water levels were measured August 3 & 5 at the Harrison and Johnson wells, and August 5 at the Countryside well. The following table lists measurements and the approximate water level elevations.

<u>Date</u>	<u>Well</u>	<u>Location</u>	<u>Measured Depth to Water</u>	<u>Water Level Topographic Elevation</u>
August 3	Harrison	IN 7E 31 ABBA	476'	3604
August 5	Harrison	IN 7E 31 ABAA	466'	3614
August 3	Johnson	IN 7E 31 AAAA	474.5'	3615.5
August 5	Johnson	IN 7E 31 AAAA	476.7'	3613.3
August 5	Countryside	IN 7E 29 CDDB	306'	3614

By comparing the water level elevations of the three wells, it is apparent that they were completed into the same water bearing formation. Ralph Taylor stated that all three of the wells penetrated the Deadwood Sandstone formation, which is the deepest water bearing formation in this area. The top of the Deadwood Sandstone occurs 500-800 feet below land surface according to available drillers logs, and dips about 10° to the East (Dr. Perry H. Rahn "Effect of Ground Water Withdrawals at Countryside Development, Pennington Co. SD", 1981). The formation is made up of interbedded sandstone, conglomerate, and shale. (Rahn)

Current annual water use by the five existing water distribution systems in the Countryside Development area, and projected use by Countryside Estates, were reported as follows:

Water Distribution System	Permit No.	Pumping Rate*	No. of Wells	No. of Houses Served	Gallons of Storage	Acre Feet per Year***
Colonial Village Water Co.	1726-2	Permit 225 Actual 125	4	170	100,000	75
Whispering Pines Water Co.	no permit	< 18 **	1	16	20,000	7
Ray Johnson Water System	no permit	12	1	8	2,000	4
Spring Canyon Estates	no permit	< 18	3	26	not reported	12
Clarkson	Incorporated into 1726-2	< 18	1		not reported	10
Projected Use By Countryside Estates	1749-2	135	1	150	168,000	67
Totals		360	11	370		175

* gallons per minute

** < 1s less than 18 gallons per minute

*** one acre foot = 325,850 gallons

SDCL 46-5-9 requires that a Water Distribution System which diverts (pumps or well flows) more than 18 gallons per minute (gpm) have a water permit. Four of the five existing water distribution systems divert less than 18 gallons per minute. While these four systems are not required by Law to have water permits, such systems are encouraged to obtain permits, if the diversion rate is expected to exceed 18 gallons per minute in the future. Acquiring a water permit will establish a priority for the system that later expands. Water distribution systems diverting 18 gpm or less receive the same domestic preference and protection as a homeowner supplied by his own private well. If diversion rates exceed 18 gpm, then water rights are required and protection from impairment of the aquifer water supply is based upon priority. The water right with the earliest priority date has the first right to water over water rights with later priority dates.

According to information provided by Builder's Development Group, a total of 435,800 gallons of water had been pumped from the Countryside Estates well by July 25, 1983. About 100,000 gallons were pumped prior to July 11, 1983 for backfilling and cleanup operations while the water mains were being constructed. The remaining 335,800 gallons were pumped between July 11 and July 25 for disinfecting and testing of the distribution system. It was reported that the storage reservoir was filled to overflowing during the disinfection procedure, and that water was allowed to flow to waste. This problem has been corrected.

The Countryside well was not pumping during the investigation, so the drawdown effect could not be measured directly. A distance drawdown plot was constructed based on the following assumptions: (1) The Deadwood formation is an artesian aquifer having no hydraulic interconnection with overlying formations. (2) There are no boundary conditions within the radius of influence of the Countryside well. (3) Transmissivity (T)=3,000 gpd/ft and storage coefficient (S)= 1.0×10^{-4} are based upon typical values for an artesian aquifer.

The distance - drawdown plot indicates that given the assumed values for (T) and (S), the water level in the Harrison well would be drawn down about 21 feet after one year of continuous pumping by the Countryside well, and 24 feet after two years of continuous pumping. The Johnson well would be drawn down 24 feet after one year of continuous pumping and 27 feet after two years. These calculations represent extreme conditions that are not expected to occur, and assume no recharge to the Deadwood Formation which is unlikely.

The temporary drawdown in nearby wells resulting from the pumping of the Countryside Estates well is caused by lowering of the aquifer artesian head pressure in the area of the Countryside well. The volume of water involved in the lowering of artesian pressure is only a small percentage of the total volume of water stored in the aquifer. Excessive fluctuations in water levels, caused by pumping wells with 125 gpm or smaller pumps and the projected annual use by Countryside Estates, is not expected.

Available information about wells in this area indicates that while a well is pumping, the water level inside the well may be drawn down several feet before stabilizing. After several hours of pumping at 102 gpm, the drawdown inside the Countryside well was measured at 162 feet below the static water level. The drawdown stabilized at 162 feet, and did not increase with continued pumping.

When the Harrison well was measured while pumping, the water level was only seven feet above the original pump setting. A few feet of fluctuation in the water level (head pressure) due to pumping by Colonial Village prior to July 11 could have lowered the level enough to cause water shortage problems for the Harrison's. After July 11, continuous pumping by Countryside would have caused additional lowering of head pressure. A lower water level may have decreased the gallons per minute produced by the pump. Production decreased as the water level was lowered even though the water level in the well was above the pump.

Because of the limited information available about the hydrologic characteristics of the Deadwood formation, an estimate of water availability was made based on an aerial coverage of 9 square miles surrounding the Countryside well, an average saturated sandstone thickness of 50 feet, and a specific yield figure of 0.10. Based upon these assumptions, the total volume of recoverable water available in the study area is at least 28,800 acre feet.

Current annual use accounts for 0.4% of the estimated recoverable storage. The additional use by Countryside will increase the annual consumption to 0.6% of the storage. Even though fluctuations in water levels (head pressure) occur in area Deadwood Formation wells, the availability of water in the formation has not been impaired, nor is impairment expected with projected annual pumping.

Conclusions

1. The Countryside Estates water supply well was completed into the same water bearing formation as the Harrison and Johnson wells.
2. Based upon the assumed values for (T) and (S), the water supply available to the Harrison and Johnson wells will not be impaired by pumping the Countryside well.
3. The volume of water involved in the artesian head pressure is only a small percentage of the total volume of water stored in the aquifer. Authorized water permits for area Deadwood Formation wells will cause drawdowns of artesian pressure that involve only a small fraction of this small percentage.
4. SDCL 46-6-6.1 does not require the head pressure in a well to be protected, although the Water Management Board when considering a water permit application must consider and balance the public interest question of head pressure versus any affect upon nearby domestic wells.
5. Existing Deadwood Formation water permits can be utilized without jeopardizing the supply of water in the Formation.
6. It would be a waste of the State's water resources to restrict water use by existing water permits in order to protect a few feet of artesian head pressure in the Harrison and Johnson wells.
7. More information is needed to accurately determine the hydrologic characteristics of the Deadwood formation in this area.

Recommendations

1. That Water Permit No. 1749-2 should not be restricted and that use of water authorized by the permit be allowed to continue.
2. That an observation well be drilled in the area to accurately monitor water level fluctuations.
3. That those water distribution systems which may divert more than 18 gallons per minute in the future, obtain water permits to establish priority in the event it is necessary to deny additional water permit applications for Deadwood Formation wells, or restrict water use.

Frank Smith

Frank Smith
Natural Resource Engineer

C91601jh.wr

Clarence & Joan Harrison
Sub. Rt. Box 156 AA
Rapid City, SD 57701
July 20, 1983

To: Countryside Land Development
Pennington County Commissioners
Rapid City Journal

Regarding Well Draw-Down in area adjacent to the Countryside Land Development located on Sheridan Lake Road.

Gentlemen:

The 1st week of July 1983, we noticed that the pump in our private well had very little volume and that our water would actually cease running periodically. The well was rated at from 30 to 35 gallons a minute when dug in 1975, and the 3-horse pump would pump 18 gallons a minute at the depth of 483 ft. in a 960 ft. well.

On the 11th of July, we installed a new pump and an additional 63 ft. of 1½" pipe which extended the pump to 546 ft. This work cost about \$2000 and took the system to the limits of its design. (More work would mean resizing the pump, pipe, and wire at a much increased cost.) We were disappointed to find that the situation had been only partially remedied and that the pump we had replaced turned out to have been perfectly operable. It gradually improved over the next few days, but the flow has been reduced to about 10 gallons a minute.

On July 19th, neighbor Ray Johnson of this area called to say that he had heard of our difficulty and to tell me that his well which serves eight families had needed to have the pump extended 100 ft. to the 635 ft. level and was not appreciably helped. He had discovered that the Countryside Development had filled their 176,000 gallon reservoir, dumped it to clean the system, filled and then overfilled it-apparently without a float system installed.

Since the Countryside reservoir is intended to serve at least 123 units at the development as projected we feel that this situation could occur again in the future and that the existing water systems in the area could be in serious jeopardy despite a study claiming to show that no wells in the area would be affected. We know that at least two will certainly be.

We urge that this situation be carefully monitored before it is too late for remedies, and water is again an elusive commodity-for many families.

Respectfully yours,

Joan Harrison
Joan Harrison
(Mrs. Clarence A. Harrison)





Department of Water & Natural Resources

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

May 23, 1988

Dennis Catron
Countryside Subdivision
1617 Sheridan Lake Road
Rapid City SD 57702

Dear Mr. Catron:

This letter is in response to the water permit application for Countryside Subdivision received on May 20, 1988. The following information is needed to complete the water permit application:

- 1) The enclosed driller's log needs to be signed by the licensed representative for Taylor Drilling before the log can be accepted.
- 2) I also need a clarification regarding the purpose of the application. A description on the application states that the second well is to be an alternate well for the existing well drilled in 1981. However, the application also specifies a diversion rate of 0.3 cubic feet of water per second (cfs). I need to know if you intend to increase the existing pumping capacity by an additional 0.3 cfs or if the second well is for standby purposes only. If the pumping capacity is not to be increased, then the application fee for an additional well is \$50.00 instead of the \$225.00 sent with the application. Enclosed is the check for \$225.00. If you do not intend to increase the pumping capacity, then submit a \$50.00 fee or if you do intend to increase the pumping capacity by 0.3 cfs, then return the \$225.00 fee.

The water permit application can not be processed for consideration by the Water Management Board until the application is complete. Please remit the correct application fee with the signed well log to complete the water permit application. Contact me if you have any questions.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enc.



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, June 2, 19 88

RECEIVED OF Builders Development Group, Inc., 1617 Sheridan Lake Rd., Rapid City, SD
the following amount in fees for services rendered as provided for by law: 57702

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____	50	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	50 00

By John Hatch
Chief Engineer JOHN HATCH (MS)



TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062

RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

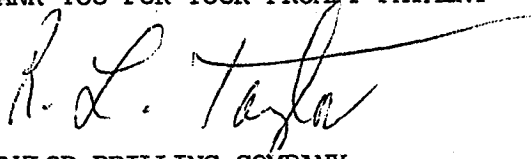
May 24, 1990

TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

Countryside Estates
1617 Sheridan Lake Rd.
Rapid City, SD 57702
Att: Dennis Catron
INV. # MAY-0105-90 WELL

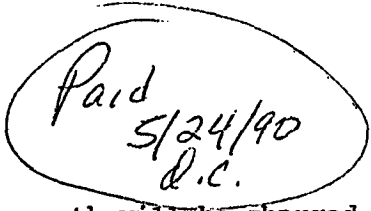
22'	Drilling for Conductor Pipe	@ \$24.00/ft.	\$ 528.00
1407'	Drilling	@ \$16.00/ft.	22,512.00
1072'	7" Casing	@ \$11.50/ft.	12,328.00
1070'	Cement Column around 7" Casing	@ \$ 2.50/ft.	2,675.00
			38,043.00
	4% Tax Materials (15,003.00).....		600.12
			38,643.12
	2% Excise Tax.....		772.86
	TOTAL DUE.....		\$39,415.98

THANK YOU FOR YOUR PROMPT PAYMENT


TAYLOR DRILLING COMPANY

TERMS: DUE UPON RECEIPT.

A rate of 1½% INTEREST per month will be charged on the UNPAID BALANCE.


Paid
5/24/90
d.c.



TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062

RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

August 23, 1990

TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

Countryside Estates
1617 Sheridan Lake Rd.
Rapid City, SD 57702
Att: Dennis Catron

ESTIMATE FOR PUMP:

Estimated Pumping Level: 700'-750'
110 PSI Line Pressure: 255'
Est. Friction loss: 50'
Est. T.D.H.: 1,050'

1	50 H.P. 460 Volt 3 Phase Pump & Motor (produces 135 G.P.M. at 1050 T.D.H.)		\$ 8,960.93
860'	#2-4C Pump Cable	@ \$ 4.55/ft.	3,913.00
840'	3" Black Drop Pipe	@ \$ 5.10/ft.	4,284.00
6	3" Ductile Iron Check Valves	@ \$175.00/ea.	1,050.00
850'	1/4" Air Drawdown tube		100.00
	Installation		1,000.00
TOTAL ESTIMATE FOR PUMP.....			\$19,307.93
Plus applicable tax			

THANK YOU FOR YOUR CONSIDERATION

TAYLOR DRILLING COMPANY

SOUTH DAKOTA WATER WELL COMPLETION REPORT

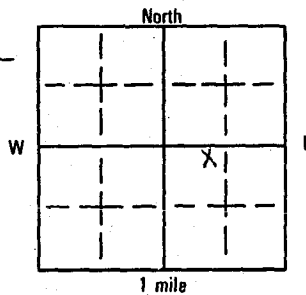
10-85

Location NW 1/4 SE 1/4 Sec 29 Twp 1N Rg 7E

County

Pennington

Please mark well location with an "X"

Well Completion Date May 24, 1990

PROPOSED USE:

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

Method of Drilling:

Air Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>22</u> LB/FT	<u>7</u> IN	<u>0</u> FT	<u>1070</u> FT	<u>8 3/4</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 1070 FEETWhat is grouting material? cementIf cement, number of sacks? 160Describe grouting procedure pressure grouted through casingWhat was grout weight? 15 LB/GALSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

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? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain chlorine solution circulated in wellBacteriological analysis ☐ YES ☒ NOLaboratory sent to pump has not been set

Well Owner:

Name Countryside Estates - Dennis CatronAddress 1617 Sheridan Lake Rd. Rapid City, SD

Well Log:

Depth

Formation	From	To
Topsoil	0	6
red shale	6	73
tan limestone	73	161
red limestone	161	195
limestone + siltstone	195	445
purple ss	445	460
ss + limestone	460	650
white to cream limestone	650	1017
purple siltstone	1017	1070
gray + purple ss	1070	1120
red to purple siltstone	1120	1250
green shale	1250	1312
white to gray ss	1312	1365
purple shale	1365	1400
Pre cambrian schist	1400	1430
STATIC WATER LEVEL	<u>245</u> Feet	

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped☐ BailedDescribe: Air Developed☒ Other

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GP

860 ft. After 2 1/2 Hrs. pumped 150 GP

_____ ft. After _____ Hrs. pumped _____ GP

REMARKS:

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm TAYLOR DRILLING COMPANY

Signature of License Representative:

Ralph Taylor

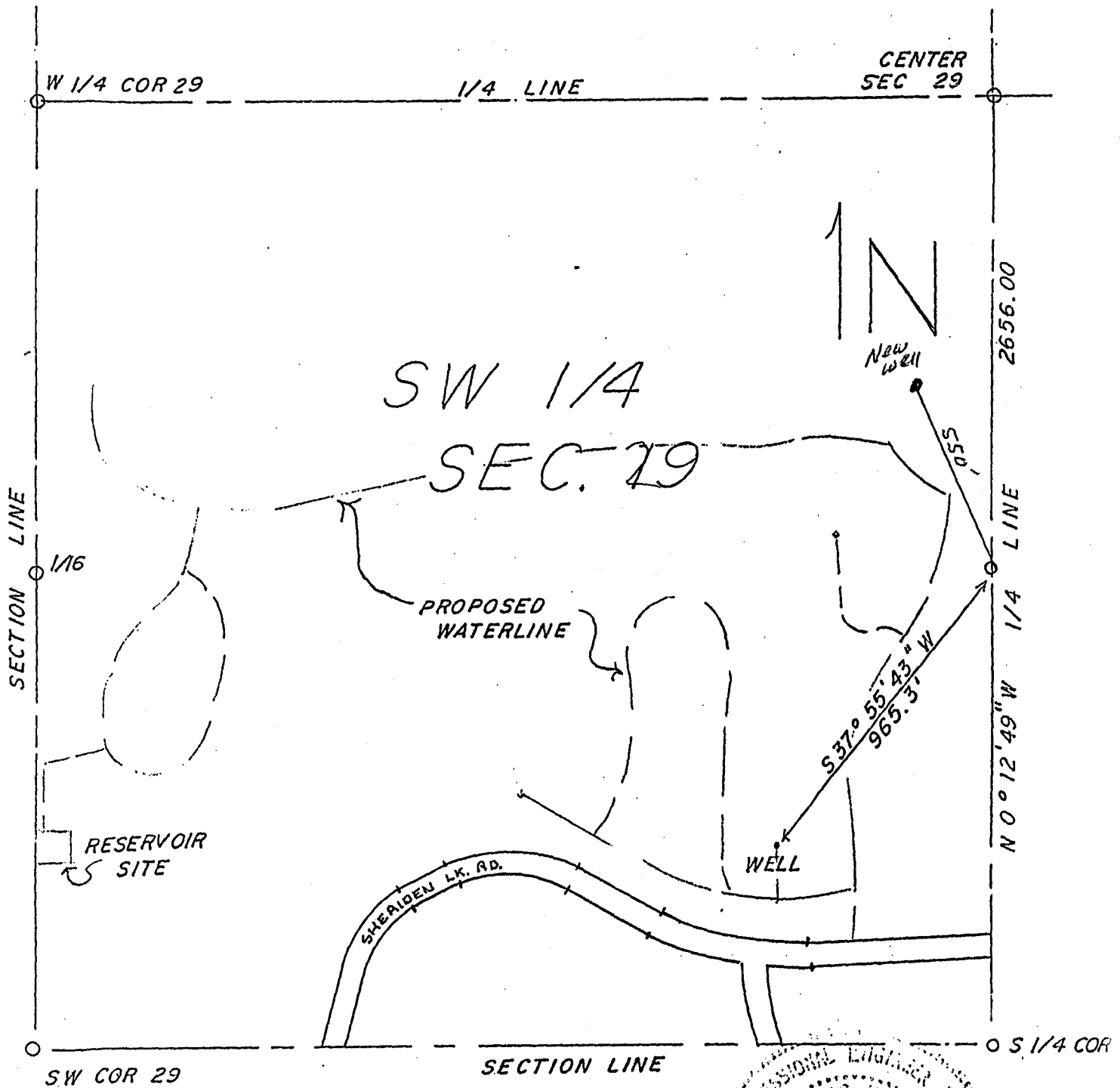
Signature of Well Owner:

Date 8-13-90

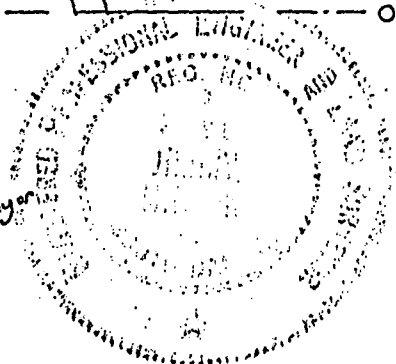
WELL LOCATION AND PROPOSED WATER LINE LOCATIONS

SW 1/4 SECTION 29, T1N, R7E, BHM

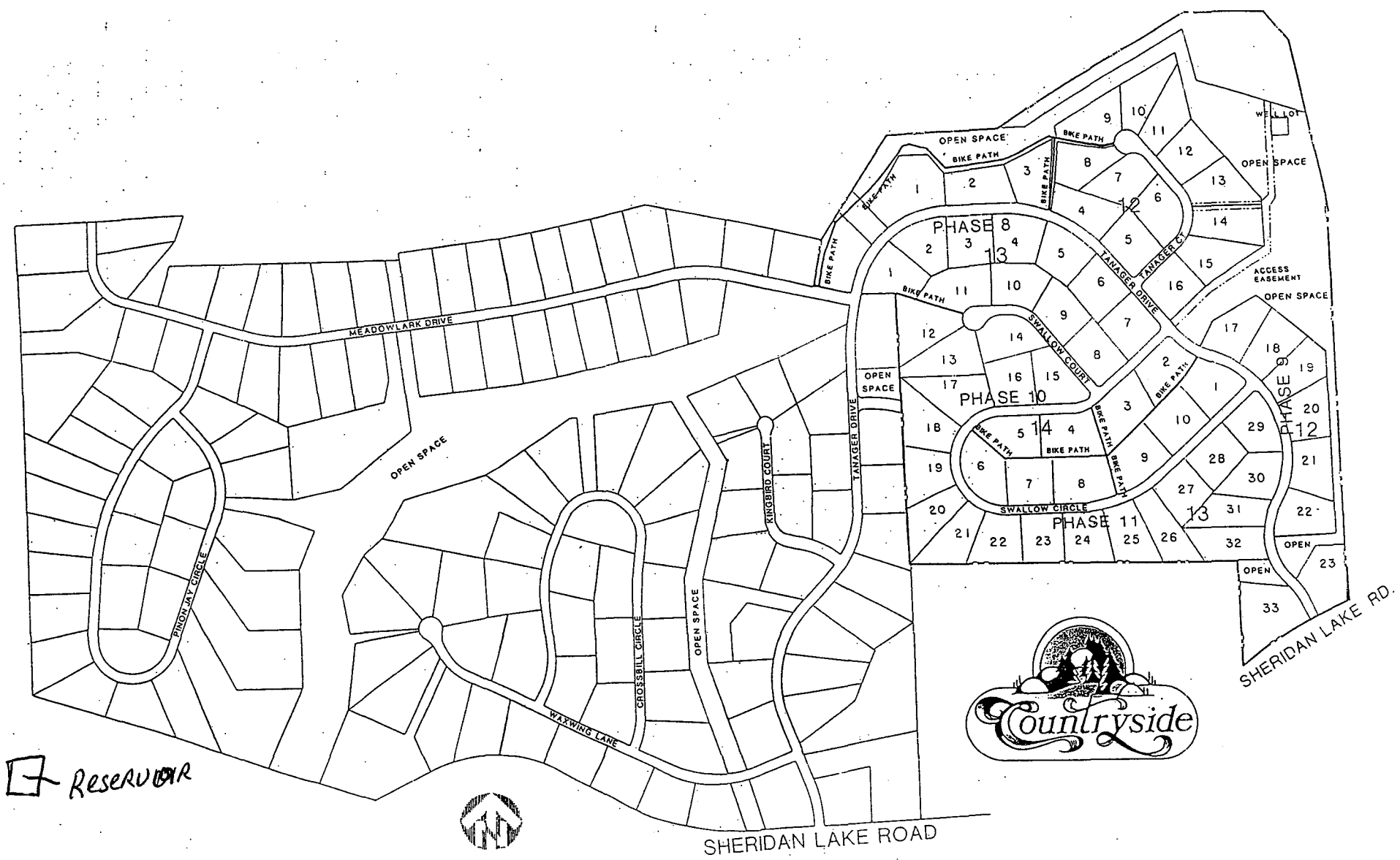
Pennington County, South Dakota



Jimmy Wilson
S.D. Land Surveyor
No. 2696
2/21/81
5/19/83



Appl. No. 2056-2



☐ RESERVOIR





RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

TELEPHONE:
Office 605-348-3600
After Hours 605-342-7119

Jan. 16, 1981

Builders Development Group JAN 19 REC'D
P.O. Box 1636
Rapid City, S.D. 57709

Attn: Mark Knecht

WELL LOG: Well off Sheridan Lake Road
Completed: 10/15/81

Total Depth 1040' 7 7/8"
1012' 7" OD Casing
Static 300 PSI 165

0-24	red sandy shale & limestone
24-58	red sandstone & limestone
58-72	red siltstone & shale
72-75	light brown sandstone
75-82	red sandstone & shale layers
82-97	light colored limestone
97-112	pinkish sandstone
112-128	limestone
128-135	sandstone
135-148	gray sandstone
148-175	multi-colored sandstone
175-181	red & white limestone
181-198	multi-colored sandstone
198-203	multi-colored limestone
203	gray sandstone
203-208	dark gray sandstone, red & white
208-215	broken sandstone
215-220	limestone
220-230	yellow sandstone
230-265	limestone yellow & brown
265-280	yellow sandstone
280-290	red sandstone soft
290-293	yellow & brown sandstone (broken)
293-295	white limestone (broken)
295-296	red siltstone-shale
296-310	white & red sandstone
310-312	red shale & siltstone
312-333	red limestone, layers red shale
333-345	red sandstone
345-360	white limestone
360-370	white limestone (broken)
370-400	brown & white limestone(broken)
over	

400-435	lost circulation(extremley broken)
435-480	hard (some fractures)
480-485	hard fractured
485-505	drilling hard, some fractures
505-565	hard some fractures
565-585	hard, fractures
585-605	hard broken
605-625	hard fractures
625-645	hard some fractures
645-660	hard
660-665	hard
665-705	hard semi-fractured
705-745	hard, tight
745-758	hard
758-805	soft
805-825	soft, some fractures
825-845	soft no fractures
845-865	hard some fractures
865-885	hard no fractures
885-905	soft w/hard layers
905-925	soft w/hard broken layers
925-945	soft w/hard broken layers
945-965	soft (shale layers)
965-985	soft (shale 975)
985-1005	hard semi-fractured
1005-1025	drilling like sandstone
1025-1040	drilling like sandstone w/hard layers



1617 Sheridan Lake Road
Rapid City, South Dakota 57702

June 1, 1988



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

Dear Mr. Duvall:

Thank you for your letter of May 23, 1988, regarding our water permit application for Countryside Subdivision.

Enclosed is the driller's log which has been signed by a representative of Taylor Drilling Company. Also enclosed is our check #1125 in the amount of \$50.00 as the purpose of the application is to establish an alternate well. We will not be using additional water.

We appreciate your assistance. Thank you.

Sincerely,

BUILDERS DEVELOPMENT GROUP, INC.

Dennis Catron, Secretary

DC: cb
Enclosures



TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57701

RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

TELEPHONE:
Office 605-348-3600
After Hours 605-342-7119

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P.O. Box 1636
Rapid City, S.D. 57709

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400-435 lost circulation(extremley broken)
 435-480 hard (some fractures)
 480-485 hard fractured
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 505-565 hard some fractures
 565-585 hard, fractures
 585-605 hard broken
 605-625 hard fractures
 625-645 hard some fractures
 645-660 hard
 660-665 hard
 665-705 hard semi-fractured
 705-745 hard, tight
 745-758 hard
 758-805 soft
 805-825 soft, some fractures
 825-845 soft no fractures
 845-865 hard some fractures
 865-885 hard no fractures
 885-905 soft w/hard layers
 905-925 soft w/hard broken layers
 925-945 soft w/hard broken layers
 945-965 soft (shale layers)
 965-985 soft (shale 975)
 985-1005 hard semi-fractured
 1005-1025 drilling like sandstone
 1025-1040 drilling like sandstone w/hard layers

Randy Taylor

Taylor Drilling Co.

S.D. Driller's License # 331

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2056-2, Countryside Subdivision

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. 2056-2, Countryside Subdivision, 1617 Sheridan Lake Road, Rapid City SD.

The Chief Engineer is recommending APPROVAL of Application No. 2056-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The well authorized by Permit No. 2056-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.
3. Combinations of diversions under Permits No. 2056-2 and 1749-2 may not exceed 0.30 cfs.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
June 22, 1988

REPORT ON APPLICATION NO. 2056-2
COUNTRYSIDE ESTATES
June 14, 1988

This application proposes another diversion point consisting of one well approximately 980 feet deep. Water Permit No. 1749-2 authorizes an appropriation of 0.30 cfs from one 1040 feet deep well located in the SE 1/4 SW 1/4 of Section 29, T1N, R7E to supply a suburban housing development. This application proposes a diversion point in the NE 1/4 SW 1/4 of Section 29, T1N, R7E and no increase in the 0.30 cfs diversion rate.

Aquifer - Deadwood Formation

The Deadwood Formation consists of sandstone, shale and shaley sandstone and is approximately 210 feet thick in this area. The Cambrian aged Deadwood lies unconformably upon Precambrian rocks and is overlain by the Englewood, Madison and Minnelusa Formations in this area. The Deadwood underlies approximately 1.5 million acres and contains an estimated 14.9 million acre-feet of recoverable water in Pennington County (Allen, 1984).

The Division of Water Rights has an observation well PE-84A which will be within 200 feet of this proposed location (Water Rights Division, 1988). The static water level is about 400 feet below land surface and the well does not show any response to pumping from the existing Countryside Estates production well. Countryside Estates is drilling the new well in an attempt to get better water quality. The existing well consistently exceeds Drinking Water Standards for radionuclides and a treatment process (softening) is only partially successful. Data collected from the observation well indicates this water would meet Drinking Water Standards.

Briefly, the cause of the radionuclide problem is not known, however, radionuclides are common in the Deadwood Formation in this area, but not at such high levels. A possible explanation would be the existence of a fault (Victoria Creek) which appears to extend through the area (Cattermole, 1969). The existence of this fault acting as a ground water barrier could account for the difference in water levels between observation well PE-84A and the existing Countryside Estates production well and as a possible source of radionuclides. The problem with this scenario is obvious. Why would the fault which may or may not completely offset the Deadwood Formation act as a hydrologic barrier and be a source of radionuclides. Hydrologically and geologically it is obvious there is a structure (fault) that is impacting the flow system in this area (water level differences)

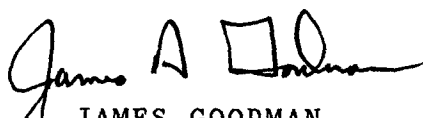
but the fault should not act as a flow barrier and conduit for water at the same time unless the entire Deadwood is offset. A more likely explanation would be that the monitoring well is completed in the upper Deadwood and the Countryside Estates well is completed into the lower Deadwood (upon Precambrian surface) and the result is water which is higher in radionuclides. Even this scenerio is problematical.

Review of Existing Water Permits

This application is about 1/4 mile north of Permit No. 1749-2 which is also issued to Countryside Estates. The proposed well location would be within 200 feet of observation well PE-84A. The monitoring well does not respond to pumping from the existing diversion point so it is doubtful a new well in this area would cause any interference. There are no other existing water permits for Deadwood wells on the north side of the Victoria Creek fault in this area. In the past, some complaints were received concerning water level declines caused by pumping from the existing wells (Smith, 1983). These complaints were investigated and corrective action taken (lowered pumps in existing problem wells). No further problems have been encountered. The proposed well will be north of the fault and should not cause drawdowns on the south side of the fault zone.

Conclusions

1. Water is available from the Deadwood Formation.
2. Interference is not likely. Existing data would indicated the fault is a hydrologic boundary and drawdowns will not extend past the fault. The existing diversion are on the other side of the fault.
3. Water Quality is the important issue. It is possible the source of the radionuclides is the Basal Deadwood Formation. If this is the case drilling a new well would not alleviate that problem.
4. If possible locating a well into the Madison Formation or further east would provide better quality water. Also incorporating water delivery systems with other suburban housing developments would be an option to consider.
5. This well must be constructed in accordance to SD Well Construction Standard 74:02:04:30.
6. If the water quality of the new well complies with Drinking Water Standards, the well authorized by Permit No. 1749-2 will be used as a standby well.


JAMES GOODMAN
Hydrologist

Bibliography

Allen J.C., etal, 1984, Analysis of Ground Water and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4, Ground Water Resource Inventory, US Army Corps of Engineers, DWNR, SDGS, Vermillion SD.

Cattermole, J.M., 1969, Geologic Map of Rapid City West Quadrangle, Map GQ-828, USGS, Washington DC.

Smith, F., 1983, Report On Investigation of Water Supply Problem Against Countryside Development, Permit No. 1749-2, DWNR Division of Water Rights, Joe Foss Building, Pierre SD 57501.

Water Rights Division, 1988, Records for Observation Well PE-84A, DWNR, Water Rights Division, Joe Foss Building, Pierre SD 57501



Department of Water & Natural Resources

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

Water Rights Division
(605) 773-3352

June 23, 1988

NOTE:

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

Countryside Subdivision
1617 Sheridan Lake Road
Rapid City SD 57702

Dear Sir:

Your Application No. 2056-2 for a permit to appropriate water for
suburban housing development use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Rapid City Journal

printed at Rapid City

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

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION
OF YOUR NOTICE OF INTENT TO APPROPRIATE WATER AND TO ARRANGE FOR PAYMENT.
Early contact with the paper can eliminate delays. The publisher has been
instructed to publish your notice once each week for two consecutive weeks
with the last publication to occur at least twenty days before the board
meeting. We must receive Proof of Publication before the application can be
considered by the Water Management Board.

Sincerely,

RON DUVALL
Natural Resources Engineer

enclosures



Department of Water & Natural Resources

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

June 23, 1988

RAPID CITY JOURNAL
PO Box 450
Rapid City SD 57702

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 2056-2 to be published twice. Please publish the first notice on or before June 28, 1988 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 Countryside Subdivision, 1617 Sheridan Lake Road, Rapid City SD 57702. A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

No. _____

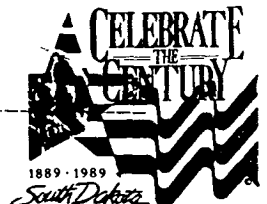
TO: Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

Date _____

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

Name

Newspaper



Instruction to Newspaper - Publish first Notice on or before June 28, 1988 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2056-2 to Appropriate Water

Notice is given that the Countryside Subdivision, 1617 Sheridan Lake Road, Rapid City SD 57702 has filed an application for a water permit for one well (Deadwood Formation) 980 feet deep to be located in the NE 1/4 SW 1/4 Section 29, T1N, R7E. Water Permit No. 1749-2 authorizes an appropriation of 0.30 cubic feet of water per second (cfs) from one well 1040 feet deep located in the SE 1/4 SW 1/4 Section 29, T1N, R7E to supply a suburban housing development. This application for a second well does not request any increase in the 0.30 cfs diversion rate for suburban housing development use by the Countryside Subdivision.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2056-2 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 July 27, 1988 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 July 15, 1988. 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 July 15, 1988.

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.

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County _____) ss.

I, Mary K. Garness hereby

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

Water was taken from the Rapid City Journal

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

City of Rapid City

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

June 30, 1988

July 7, 1988

Mary K. Garness
(Signature)

Bookkeeper
(Title)

July 7, 1988
(Date Signed)

Cost of Printing: Ran 8 9/16 inches legal adver-
tising in the Rapid City Journal on June 30 &
July 7 @ \$4.20 per inch = \$71.92
Ran public notice of hearing L317



June 30, July 7 L317
NOTICE OF HEARING
ON APPLICATION NO. 2056-2
TO APPROPRIATE WATER

Notice is given that the Countryside Subdivision, 1617 Sheridan Lake Road, Rapid City, SD 57702 has filed an application for a water permit for one well (Deadwood Formation) 980 feet deep to be located in the NE 1/4 SW 1/4 Section 29, T1N, R7E. Water Permit No. 1749-2 authorizes an appropriation of 0.30 cubic feet of water per second (cfs) from one well 1040 feet deep located in the SE 1/4 SW 1/4 Section 29, T1N, R7E to supply a suburban housing development. This application for a second well does not request any increase in the 0.30 cfs diversion rate for suburban housing development use by the Countryside Subdivision.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2056-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board at Room 216, Joe Foss Building, 523 E. Capitol, Pierre, S.D., on July 27, 1988 at 10:00 a.m. 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.

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This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

July 18, 1988

Mr. Hatch,

We are writing regarding the hearing on July 17 for a permit for the Countryside Subdivision for another well.

We are opposed to anymore wells of this nature in this area. When the well was started at Countryside, the water levels in 3 existing wells right here dropped considerably. We immediately had to lower our pumps. This is very expensive. These were Harrisons, Johnsons & ours. All in the Deadwood formation the same as Countryside. Two weeks ago Harrisons had to lower their pump again as did the Clarkson well also in the Deadwood. Our well has been pumping air for 3 weeks. So far we are able to use water for our house & the other couple on the well have done the same. Our yards & gardens are dying. At Countryside the yards are green. Again we will probably have to lower our pump and possibly have to get a bigger pump as this is a small one. There are 5 people here and 2 in the other family on our well. We've already invested almost \$4,000. The other couple are in their 80's. None of us can afford another well at Countryside. The water levels in the affected wells in this area have dropped 200- to 300 feet since Countryside went in. When these pumps get to the bottom and we all run out of water - what then? We realize this is a dry year - however, we never had any problems during other dry years before Countryside. They need another source of water rather than use up all the water in the small domestic wells and leave us with the bills.

We are told the Monitor well has only gone down 20 to 30 feet. It isn't even in the same water. Whether or not the Monitor well went down 30 feet there - it sure went down here and in this row of wells, it went down a lot more than 30 feet.

None of us can afford anymore wells at Countryside.

We would like to have this letter considered as testimony at the hearing. We can't afford to drive to Pierre. We have to buy new water pumps.

Alice Leberknight
Wayne Leberknight

S.D Department of Water and
Natural Resources
Joe Foss Building
523 East Capitol
Pierre
South Dakota 57501-3181

Clarence and Joan Harrison
Suburban Rt. Box 156AA
Rapid City
S.D. 57702 tele 341-5020

July 23, 1988

Att: John Hatch Re: Second well permit for Countryside Estates

We heard last week from a neighbor(having missed the accounts I'm sure were published) that Countryside Estates here on Sheridan Lake Road in Rapid City, has applied for a permit for a second well.

We are protesting the granting of this permit because we know it will adversely affect our well and the others in the area. Five years ago I wrote to this office with a complaint on the situation, and I am attaching copies of that correspondence which I wish to be considered a necessary part of this letter. Our well's original integrity has been violated twice to date. When dug in 1975 we were pumping at 480 ft...after extending in 1983 we were pumping at 520 ft...after extending in July of this year we are now at 720 ft. We have twice extended pipe and wiring, and replaced pump heads twice which was very costly. It also takes alot of electricity to pump from that depth. But we were fortunate. We didn't have to have the well driller back as some in the area are having to consider. However, that is a future consideration for us if the situation continues unabated.

I am quoting from a letter signed by John Hatch dated 9/26/1983 which tells of the Department's expectations of "installing an observation well in the complaint area with a continuous recorder to measure area Deadwood Formation water levels." If this was done, and is being done (?), I do not understand how additional large volume permits could be considered as it must be obvious that the water level tables are adversely affected-unless the monitor well was badly placed and doesn't present an accurate reading for the area?

Information sent me by your office read it was unnecessary to fill out an application for a water permit and/or right if the diversion does not exceed 18 gpm "and the protection of your well under South Dakota Law is unaffected." (signed Kevin C. Larson)

I would like to claim this protection now. If poor planning has left Countryside Estates without adequate water. it still doesn't make sense to penalize the others in the area by drawing down the water even more.

Thank you.

Sincerely,

Joan E. Harrison
Clarence A. Harrison
Joan E. Harrison
Clarence A. Harrison



Clarence & Joan Harrison
Sub. Rt. Box 156 AA
Rapid City, SD 57701
July 20, 1983

Copy

To: Countryside Land Development
Pennington County Commissioners
Rapid City Journal

Regarding Well Draw-Down in area adjacent to the Countryside Land Development located on Sheridan Lake Road.

Gentlemen:

The 1st week of July 1983, we noticed that the pump in our private well had very little volume and that our water would actually cease running periodically. The well was rated at from 30 to 35 gallons a minute when dug in 1975, and the 3-horse pump would pump 18 gallons a minute at the depth of 483 ft. in a 960 ft. well.

On the 11th of July, we installed a new pump and an additional 63 ft. of 1½" pipe which extended the pump to 546 ft. This work cost about \$2000 and took the system to the limits of its design. (More work would mean resizing the pump, pipe, and wire at a much increased cost.) We were disappointed to find that the situation had been only partially remedied and that the pump we had replaced turned out to have been perfectly operable. It gradually improved over the next few days, but the flow has been reduced to about 10 gallons a minute.

On July 19th, neighbor Ray Johnson of this area called to say that he had heard of our difficulty and to tell me that his well which serves eight families had needed to have the pump extended 100 ft. to the 635 ft. level and was not appreciably helped. He had discovered that the Countryside Development had filled their 176,000 gallon reservoir, dumped it to clean the system, filled and then overfilled it-apparently without a float system installed.

Since the Countryside reservoir is intended to serve at least 123 units at the development as projected we feel that this situation could occur again in the future and that the existing water systems in the area could be in serious jeopardy despite a study claiming to show that no wells in the area would be affected. We know that at least two will certainly be.

We urge that this situation be carefully monitored before it is too late for remedies, and water is again an elusive commodity-for many families.

Respectfully yours,

Joan Harrison

Joan Harrison
(Mrs. Clarence A. Harrison)

Report On Investigation of
Water Supply Problem Complaint
Against Countryside Development
Permit No. 1749-2
September 15, 1983

Copy

Water Permit No. 1749-2, Builder's Development Group, Inc. was approved March 25, 1981 to supply 0.3 cubic feet per second (135 gallons per minute) of water from one well (Deadwood Formation) for Countryside Development. A complaint letter dated July 20, 1983 was received July 26, 1983 from Joan Harrison concerning water supply problems in the Harrison well located southwest of Rapid City. This report is of an investigation conducted in the area by Division of Water Rights Engineer, Frank Smith, August 3-5, 1983. Mrs. Harrison claimed that pumping by Countryside Development was causing interference problems. A copy of her letter is attached.

The following people were contacted during the investigation:

Bob Wermers - Administrator, Pennington County Health Department
Clarence and Joan Harrison
Ray Johnson
Marcia Dunsmore - Colonial Village Water Company
Karen Nelson - Whispering Pines Water Association
Bob Knecht - Builder's Development Group, Inc.
Kathy Peters - USGS Hydrologist
Mrs. William Colson - Spring Canyon Estates Water Assoc.
Ralph Taylor - Taylor Drilling Co.

Water levels were measured August 3 & 5 at the Harrison and Johnson wells, and August 5 at the Countryside well. The following table lists measurements and the approximate water level elevations.

<u>Date</u>	<u>Well</u>	<u>Location</u>	<u>Measured Depth to Water</u>	<u>Water Level Topographic Elevation</u>
August 3	Harrison	IN 7E 31 ABBA	476'	3604
August 5	Harrison	IN 7E 31 ABAA	466'	3614
August 3	Johnson	IN 7E 31 AAAA	474.5'	3615.5
August 5	Johnson	IN 7E 31 AAAA	476.7'	3613.3
August 5	Countryside	IN 7E 29 CDDB	306'	3614

By comparing the water level elevations of the three wells, it is apparent that they were completed into the same water bearing formation. Ralph Taylor stated that all three of the wells penetrated the Deadwood Sandstone formation, which is the deepest water bearing formation in this area. The top of the Deadwood Sandstone occurs 500-800 feet below land surface according to available drillers logs, and dips about 10° to the East (Dr. Perry H. Rahn "Effect of Ground Water Withdrawals at Countryside Development, Pennington Co. SD", 1981). The formation is made up of interbedded sandstone, conglomerate, and shale. (Rahn)

Current annual water use by the five existing water distribution systems in the Countryside Development area, and projected use by Countryside Estates, were reported as follows:

Water Distribution System	Permit No.	Pumping Rate*		No. of Wells	No. of Houses Served	Gallons of Storage	Acre Feet per Year***
		Permit	Actual				
Colonial Village Water Co.	1726-2	225	125	4	170	100,000	75
Whispering Pines Water Co.	no permit		< 18 **	1	16	20,000	7
Ray Johnson Water System	no permit		12	1	8	2,000	4
Spring Canyon Estates	no permit		< 18	3	26	not reported	12
Clarkson	Incorporated Into 1726-2		< 18	1		not reported	10
Projected Use By Countryside Estates	1749-2	<u>135</u>	<u>102</u>	<u>1</u>	<u>150</u>	168,000	<u>67</u>
Totals		360	293	11	370		175

* gallons per minute

** < 18 less than 18 gallons per minute

*** one acre foot = 325,850 gallons

SDCL 46-5-9 requires that a Water Distribution System which diverts (pumps or well flows) more than 18 gallons per minute (gpm) have a water permit. Four of the five existing water distribution systems divert less than 18 gallons per minute. While these four systems are not required by Law to have water permits, such systems are encouraged to obtain permits, if the diversion rate is expected to exceed 18 gallons per minute in the future. Acquiring a water permit will establish a priority for the system that later expands. Water distribution systems diverting 18 gpm or less receive the same domestic preference and protection as a homeowner supplied by his own private well. If diversion rates exceed 18 gpm, then water rights are required and protection from impairment of the aquifer water supply is based upon priority. The water right with the earliest priority date has the first right to water over water rights with later priority dates.

According to information provided by Builder's Development Group, a total of 435,800 gallons of water had been pumped from the Countryside Estates well by July 25, 1983. About 100,000 gallons were pumped prior to July 11, 1983 for backfilling and cleanup operations while the water mains were being constructed. The remaining 335,800 gallons were pumped between July 11 and July 25 for disinfecting and testing of the distribution system. It was reported that the storage reservoir was filled to overflowing during the disinfection procedure, and that water was allowed to flow to waste. This problem has been corrected.

The Countryside well was not pumping during the investigation, so the drawdown effect could not be measured directly. A distance drawdown plot was constructed based on the following assumptions: (1) The Deadwood formation is an artesian aquifer having no hydraulic interconnection with overlying formations. (2) There are no boundary conditions within the radius of influence of the Countryside well. (3) Transmissivity (T)=3,000 gpd/ft and storage coefficient(S)= 1.0×10^{-4} are based upon typical values for an artesian aquifer.

The distance - drawdown plot indicates that given the assumed values for (T) and (S), the water level in the Harrison well would be drawn down about 21 feet after one year of continuous pumping by the Countryside well, and 24 feet after two years of continuous pumping. The Johnson well would be drawn down 24 feet after one year of continuous pumping and 27 feet after two years. * These calculations represent extreme conditions that are not expected to occur, and assume no recharge to the Deadwood Formation which is unlikely. JCH

The temporary drawdown in nearby wells resulting from the pumping of the Countryside Estates well is caused by lowering of the aquifer artesian head pressure in the area of the Countryside well. The volume of water involved in the lowering of artesian pressure is only a small percentage of the total volume of water stored in the aquifer. Excessive fluctuations in water levels, caused by pumping wells with 125 gpm or smaller pumps and the projected annual use by Countryside Estates, is not expected.

Available information about wells in this area indicates that while a well is pumping, the water level inside the well may be drawn down several feet before stabilizing. After several hours of pumping at 102 gpm, the drawdown inside the Countryside well was measured at 162 feet below the static water level. The drawdown stabilized at 162 feet, and did not increase with continued pumping.

When the Harrison well was measured while pumping, the water level was only seven feet above the original pump setting. * A few feet of fluctuation in the water level (head pressure) due to pumping by Colonial Village prior to July 11 could have lowered the level enough to cause water shortage problems for the Harrison's. After July 11, continuous pumping by Countryside would have caused additional lowering of head pressure. A lower water level may have decreased the gallons per minute produced by the pump. Production decreased as the water level was lowered even though the water level in the well was above the pump. JCH

Because of the limited information available about the hydrologic characteristics of the Deadwood formation, an estimate of water availability was made based on an aerial coverage of 9 square miles surrounding the Countryside well, an average saturated sandstone thickness of 50 feet, and a specific yield figure of 0.10. Based upon these assumptions, the total volume of recoverable water available in the study area is at least 28,800 acre feet.

Current annual use accounts for 0.4% of the estimated recoverable storage. The additional use by Countryside will increase the annual consumption to 0.6% of the storage. Even though fluctuations in water levels (head pressure) occur in area Deadwood Formation wells, the availability of water in the Formation has not been impaired, nor is impairment expected with projected annual pumping.

Conclusions

1. The Countryside Estates water supply well was completed into the same water bearing formation as the Harrison and Johnson wells.
2. Based upon the assumed values for (T) and (S), the water supply available to the Harrison and Johnson wells will not be impaired by pumping the Countryside well.
3. The volume of water involved in the artesian head pressure is only a small percentage of the total volume of water stored in the aquifer. Authorized water permits for area Deadwood Formation wells will cause drawdowns of artesian pressure that involve only a small fraction of this small percentage.
4. SDCL 46-6-6.1 does not require the head pressure in a well to be protected, although the Water Management Board when considering a water permit application must consider and balance the public interest question of head pressure versus any affect upon nearby domestic wells.
5. Existing Deadwood Formation water permits can be utilized without jeopardizing the supply of water in the Formation.
6. It would be a waste of the State's water resources to restrict water use by existing water permits in order to protect a few feet of artesian head pressure in the Harrison and Johnson wells.
7. More information is needed to accurately determine the hydrologic characteristics of the Deadwood formation in this area.

Recommendations

1. That Water Permit No. 1749-2 should not be restricted and that use of water authorized by the permit be allowed to continue.
2. That an observation well be drilled in the area to accurately monitor water level fluctuations.
3. That those water distribution systems which may divert more than 18 gallons per minute in the future, obtain water permits to establish priority in the event it is necessary to deny additional water permit applications for Deadwood Formation wells, or restrict water use.

Frank Smith

Frank Smith
Natural Resource Engineer

C91601jh.wr



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

November 16, 1983

Copy

Mrs. Clarence A Harrison
Box 156AA, Suburban Rt.
Rapid City SD 57701

Mrs. Harrison:

Enclosed please find the proper forms for applying for a water permit. South Dakota Law does not require a permit application if you are diverting 18 gallons per minute or less for domestic use. If your diversion does not exceed 18 gpm you are not required to obtain a water permit and the protection of your well under South Dakota Law is unaffected. If you have any further questions, please contact this office.

Thank you,

Kevin C. Larson

KEVIN C LARSON
Water Resources Engineer

KCL:ks

enclosures



Department of Water & Natural Resources

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

September 26, 1983

Copy

Clarence and Joan Harrison
Sub. Rt., Box 156AA
Rapid City, South Dakota 57701

Dear Mr. & Mrs. Harrison:

Enclosed is a copy of "Report on Investigation of Water Supply Problem Complaint Against Countryside Development Permit No. 1749-2". Within the next several months, we expect to install an observation well in the complaint area with a continuous recorder to measure area Deadwood Formation water levels. The water level information will be useful in the event of future complaints, to help determine any water level effects from pumping under existing water permits and to help determine if additional permits can be approved.

Please let us know if you have questions on the Report.

Very truly yours,

John Hatch, Chief Engineer
Water Rights Division
Phone: (605) 773-3352



Lawrence Perry
Sub Rt # 142-1
Rapid City SD 57702

July 18 1988

John Hatch
DWNR - Div of Water Rights
Joe Foss Bldg
Pierre SD 57501

Dear Mr. Hatch:

Re: Countryside Well Permit Hearing (July 27 1988)

I would again like to express my concern about the amount of water the Countryside subdivision and other subdivisions in this area are drawing from the Madison and Deadwood aquifers.

Since our initial concern expressed in 1982 almost all of the domestic wells in the proximity of these subdivisions have had to have their pumps set deeper. In some instances this has required using a larger pump and the expense of new heavier wiring to accomodate the pump.

In order to avoid putting in a central sewage system these subdivisions use large lots that will permit the use of private septic systems. To keep up the large lots the residents have been putting in large lawns and are essentially irrigating the entire area. If Countryside reaches its expected potential of 420 homes with 420 septic systems and 420 huge lawns I feel this will constitute mining of the aquifer. The Rapid City Water and Sewage systems should be used to eliminate this problem.

I would urge that you help keep this from becoming a bigger problem for those of us with domestic wells in this area by refusing these permits.

Lawrence Perry
Lawrence Perry



Department of Water & Natural Resources

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

DEC 1 1988

Countryside Subdivision
1617 Sheridan Lake Road
Rapid City, South Dakota 57702

Dear Sir:

Enclosed is Water Permit No. 2056-2 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 Water Permit No. 2056-2.

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

Very truly yours

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

JH:ms

enclosure

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

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

Permit No. 1749-2/2056-2

Water District: Upper Cheyenne

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

I have this day made a thorough examination of the water use system constructed by Builders Development Group, Inc. of 1901 Audubon Court, Rapid City, SD 57702 holder of Permit No. 1749-2/2056-2, bearing the priority of February 13, 1981/May 20, 1988 authorizing the diversion of 0.3 cu. ft. per second of groundwater for suburban housing uses, in Pennington County.

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

A. Works used to divert the water:

Two pumps: Submersible, 100/135 gallons per minute capacity

Two motors: Submersible, 30/50 horse power.

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

600 feet of 6 inch Polyvinyl Chloride (PVC) pipe.

C. Works used to apply water to beneficial use:

Water is used for needs of a suburban housing development.

The system is in the following condition Very good. The point of diversion is located Well No. 1: Approximately 552 feet north, 2050 feet east from the Southwest corner of Section 29, (SE1/4 SW1/4). Well No. 2: Approximately 1931 feet north, 2460 feet east from the Southwest corner of Section 29, (NE1/4 SW1/4), all in T1N-R7E. The works are capable of diverting and conveying to the place of use 0.52 cu. ft. per second of water which is to be used for suburban housing. Water has been put to beneficial use to the maximum extent as follows:

Water is used in a suburban housing development, will be serving 200 houses.

The license should be issued for 0.30 cfs.

Application permit qualifications have been complied with ☒ Yes No

Exceptions to compliance are: None

Date: 8/26/91



M. RASSOOL AHADI
Natural Resources Engineer III
DENR, Water Rights Division

LICENSE FOR PERMIT NUMBER 1749-2

1. Legal location of wells: SE1/4 SW1/4 Section 29, T1N-R7E

2. Well Information: Well Drilling Firm Taylor drilling

Completion Report? Yes X No No. of Wells 1 Depth 1040 feet

Casing a) diameter 7 inches

Screen a) type None

b) length 1012 feet

b) length feet

c) type Steel

Static Water Level 300 feet

Pump a) make Submersible

Motor a) make Submersible

b) model

b) model no.

c) size

c) horsepower rating 30

d) capacity 100 GPM

d) serial no.

e) turbine pump - no. of stages

f) operating PSI

3. Distribution lines or canals

a) size 6 inches

b) type Polyvinyl Chloride (PVC)

c) length 200 feet

Indicate any other permit(s) which are associated with project Permit No. 2056-2

Yes No Check Items

NA 1. Soil and water permit lands agree with lands being irrigated
and lands listed on permit?

X 2. Special qualifications to permit being abided by?

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

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

X 5. Is chemigation used?

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

REMARKS:

LICENSE FOR PERMIT NUMBER 2056-2

1. Legal location of well: NE1/4 SW1/4 Section 29, T1N-R7E

2. Well Information: Well Drilling Firm Taylor Drilling Co.

Completion Report? Yes X No No. of Wells 1 Depth(s) 1430 feet

Casing a) diameter 7 inches Screen a) type None

b) length 1070 feet b) length feet

c) type Steel Static Water Level 245 feet

Pump a) make Submersible Motor a) make Submersible

b) model b) model no.

c) size c) horsepower rating 50

d) capacity 135 GPM d) serial no.

e) turbine pump - no. of stages

f) operating PSI

3. Distribution lines or canals

a) size 6 inches

b) type Polyvinyl Chloride (PVC)

c) length 400 feet

Indicate any other permit(s) which are associated with project 1749-2

Yes No Check Items

- | | |
|-----------|---|
| <u>NA</u> | 1. Soil and water permit lands agree with lands being irrigated and lands listed on permit? |
| <u>X</u> | 2. Special qualifications to permit being abided by? |
| <u>X</u> | 3. All structures, wells and lands on map? |
| <u>NA</u> | 4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period? |
| <u>X</u> | 5. Is chemigation used? |
| | 6. If yes, does equipment comply with chemigation rules? |

REMARKS: **The pumping capacities of both pumps, under Water Permit Nos. 1749-2 and 2056-2, exceed the water permits limitation. According to Dennis Catron, with the Countryside Estates, only one of the pumps is in operation at any time.**

South Dakota



GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 17, 1991

Countryside Estates
c/o Dennis Catron
1901 Audubon Court
Rapid City, SD 57702

Dear Mr. Catron:

As you requested, I have enclosed a partially completed transfer form to change the name on Water Permit No. 1749-2. Please complete the form, sign and notarize it, and return it to our office with \$2.50 filing fee.

If you have any questions, please do not hesitate to contact me.

Sincerely,

M. Rassool Ahadi

M. RASSOOL AHADI
Natural Resources Engineer
(605) 773-3352

File No. 1749-2/2056-2

**Water Rights Division -DENR
Conversation or File Documentation**

NAME OF PERSON OR FILE: Builder's Development Group Inc.

ADDRESS: 1901 Audubon Court, Rapid City, SD 57702 **COUNTY:** Penn.

DATE: 9/19/91

TELEPHONE: 348-1731

RE: Transfer of the permits

COMMENTS: Today, I received a phone call from Mr. Dennis Catron reg. transfer of the permits. Mr. Catron stated that they are in process of selling the whole development. He asked if it would be OK to wait until the property is sold then change the name on the permits? I told him that was fine. I also asked him to notify us when the deal is complete, he said OK!

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.



M. RASSOOL AHADI

Natural Resources Engineer III
DENR, Water Rights Division



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 13, 1993

1749-2
2056-2

Dennis Catron
Countryside Estates
1901 Audubon Court
Rapid City, SD 57702

Dear Mr. Catron:

In September, 1991, we contacted you concerning the transfer of Water Permit No. 1749-2. The water permit is currently listed in the name of Builder's Development Group, Inc. You indicated you would contact us when the property had sold and the transfer could be filed. To date, we have not heard from you on this matter.

Enclosed is a "Notice of Transfer of Ownership" form for use in filing an ownership change. The form will need to be completed and signed in the presence of a notary public. A \$2.50 filing fee is required and should be returned to us with the completed transfer form. If a ownership change is not required, please contact me.

Once Water Permit No. 1749-2 (Builder's Development Group, Inc.) and Water Permit No. 2056-2 (Countryside Estates) are listed in the same name, we will begin processing the water license. A \$50.00 fee is required for the inspection and issuance of the water license. Only one inspection fee will need to be paid because the applicable portions of No. 1749-2 will be incorporated into No. 2056-2.

A total of \$52.50 is required for processing the transfer of ownership and the water license. If you have any questions, please contact me.

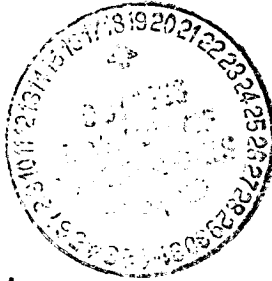
Sincerely,

Genny McMath
Natural Resources Analyst
Water Rights Division
(605) 773-3352

enclosure

NOTICE OF TRANSFER OF OWNERSHIP

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



No. 1749-2

Date: October 14, 1993

I/We request that Water Permit No. 1749-2

formerly owned by: Builder's Development Group, Inc.

be transferred to: (name & address) Countryside Homeowners Association
c/o 5095 Waxwing Ln, RC, SD 57702 (Telephone No)

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

(diversion point) SE1/4SW1/4 Section 29, T1N, R7E

I/We understand that the validity of Water Permit No. 1749-2 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 at the Division of Water Rights, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is attached to cover the filing fees as required under SDCL 46-2-13.

STATE OF SOUTH DAKOTA)

County of Pennington)

I/We Christina H Sanchez being first duly sworn on my oath depose and say that my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and that I know of my own personal knowledge that the information herein stated is true.

Countryside Homeowners Association

by: Christina H Sanchez
(Signed)
President

Subscribed and sworn to before me this 14th day of October, 1993.

[Signature]
(Notary Public)

My Commission Expires: 21 Nov 1996

NOTE: Water permits may be cancelled for nonconstruction within the five year construction period. 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

413918

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____, October 18, 19 93

RECEIVED OF Countryside Water System, Rapid City, SD 57702

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>Water Permit No. 1749-2</u>		2 50
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	2 50

By

Chief Engineer

John H. Hatcher

RECEIPT

413919

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____, October 18, 19 93

RECEIVED OF Countryside Water System, Rapid City, SD 57702

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>2056-2</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

December 2, 1993

No. 1749-2

Christina H. Sanchez, President
Countryside Homeowners Association
%509 S. Waxwing Lane
Rapid City, SD 57702

Dear Ms. Sanchez:

Enclosed is a receipt in the amount of \$2.50 which you paid for the transfer of Water Permit No. 1749-2.

Our records now show Countryside Homeowners Association as the owner of Water Permit No. 1749-2.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Division
(605) 773-3352

enclosure

*Prepared by FMG Engineering prior to drilling
new well in 1990. Dennis Catron*

COUNTRYSIDE SUBDIVISION - WATER USE REVIEW

From Dennis Catron:

Peak Monthly water use - August, 1989
Average day during Peak Month = 2,378,632 gallons/31 days = 76,730 gpd

Residences in August, 1989 - 106
Residences after Expansion - 196

From Rapid City Municipal Water System 1985 Report by FMG

Peak Monthly Use/Average Daily Use
July (6 data points) = 176% of Average Day
August (6 data points) = 170.5% of Average Day

Peak Daily (1963-1984) = 322% of Average Daily Use
or $322/176 = 182\%$ of Average Day-Peak Month

Thus Peak Day at Countryside probably near
 $76,730 \times 1.82 = 139,600$ gpd or 97 gpm for 24-hrs

If above Data is OK then Average Day $76,730/1.76 = 43,600$ gpd
If 106 homes @ 3 people/home Avg Day = 137 gpcpd Reasonable

If 106 homes - Peak Daily Use = 1317 gal/house/day

STANDARD ENGINEERING PRACTICE - SUPPLY SHOULD MEET PEAK DAILY USE

For new expansion project plus existing

PEAK DAILY USE = 196×1317 gal/house/day = 258,132 gpd
or 179 gpm for 24 hrs - but best to supply in less than 24 hrs

STORAGE:

From Lee Olson data

Existing Tank Capacity = 168,500 gallons
Overflow Elevation = 4121.5
Turn pump on @ Elevation = 4116 or 5.5' below overflow

From 1985 Rapid City Report

Peak Rate of Demand - 163% of Peak Daily Demand

Thus at Countryside - Peak Rate of Demand = $97 \text{ gpm} \times 1.63 = 158 \text{ gpm}$
If peak use continues for 4-hrs (typical) - 37,920 gallons from storage

But if pump supplies 100 gpm, then 58 gpm or 13,920 gallons from storage

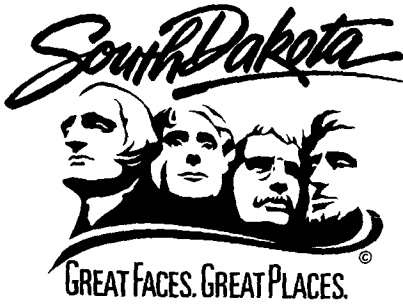
Typical Fire Protection - 1000 gpm for 2-hrs = 120,000 gallons

If Reservoir level at elevation 4116 when peak begins - storage available = 139,500 gallons

Total required = 133,920 - 157,920 gallons depending on whether or not the pump is running during a fire event.

BASED ON THIS ANALYSIS THE EXISTING STORAGE IS PROBABLY SATISFACTORY

A similar analysis for the expansion project will lead to a similar conclusion if an additional source of comparable quantity is developed and set to turn of at the appropriate level of water in the reservoir.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 11 1997

2056-2

Christina H. Sanchez, President
Countryside Homeowner's Association
5095 Waxwing Lane
Rapid City, SD 57702

Dear Ms. Sanchez:

Enclosed is Water License No. 2056-2. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413919 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 2056-2, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Very truly yours,

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

gm
enclosures

NOTE: The applicable portions of Water Permit No. 1749-2 (transferred to Countryside Homeowner's Association) has been incorporated into this Water License No. 2056-2.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2056-2

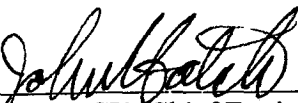
(1) Countryside Subdivision, 1617 Sheridan Lake Road, Rapid City, SD 57702 made Application No. 2056-2, May 20, 1988 for a water permit to construct an additional well to be used in conjunction with the well authorized under Water Permit No. 1749-2. Water Permit No. 2056-2 did not allow for an increase in the 0.30 cubic feet of water per second authorized under No. 1749-2. The existing well and the one additional well are located in Pennington County, South Dakota and are used for suburban housing development purposes. Permit No. 2056-2, with a priority date of May 20, 1988 was approved July 27, 1988 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 27, 1993 and for the application to beneficial use of said water on or before July 27, 1997.

The applicable portions of Water Permit No. 1749-2 (transferred to Countryside Homeowner's Association) have been incorporated into this Water License No. 2056-2. A priority date of February 13, 1981 (established under No. 1749-2) is retained for the well located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29. A priority date of May 20, 1988 (established under No. 2056-2) is retained for the well located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.30 cubic feet of water per second for beneficial use. The location of the diversion points is 552'N and 2,050'E of the SW corner of Section 29 (SE $\frac{1}{4}$ SW $\frac{1}{4}$) and 1,931'N and 2,460'E of the SW corner of Section 29 (NE $\frac{1}{4}$ SW $\frac{1}{4}$) all in T1N, R7E.

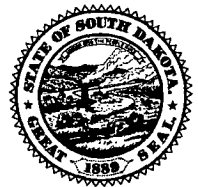
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Countryside Homeowner's Association, 5095 Waxwing Lane, Rapid City, SD 57702 the holder and/or owner of Incorporated Water Permit No. 2056-2 is issued a license to appropriate water, the right to use 0.30 cubic feet of water per second from ground water (two wells) with priority dates of February 13, 1981 and May 20, 1988 from the location specified in (2) of this license, to be used for suburban housing development purposes. This license is subject to any limitations or qualifications listed in Incorporated Water Permit No. 2056-2 and subject to South Dakota State Law.


JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUN 11 1997

date



Rapid City West
Quad

20

T1N

3870

NP Thad
Nat. Res. Eng.
9-6-91

X 3918

3969

29

X 3897

R7E

well location

Well No. 1

3957

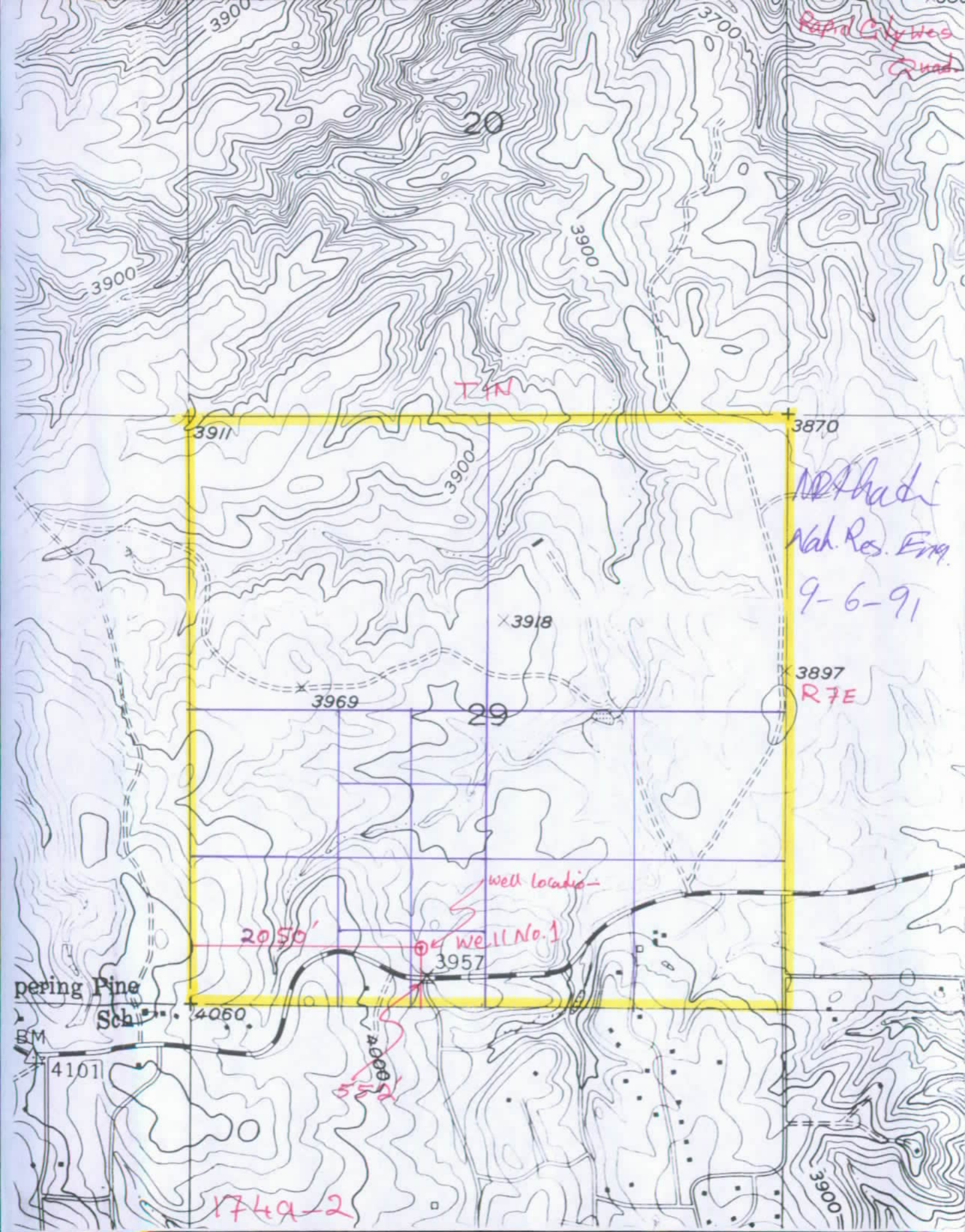
2050'

Pering Pine
Sch

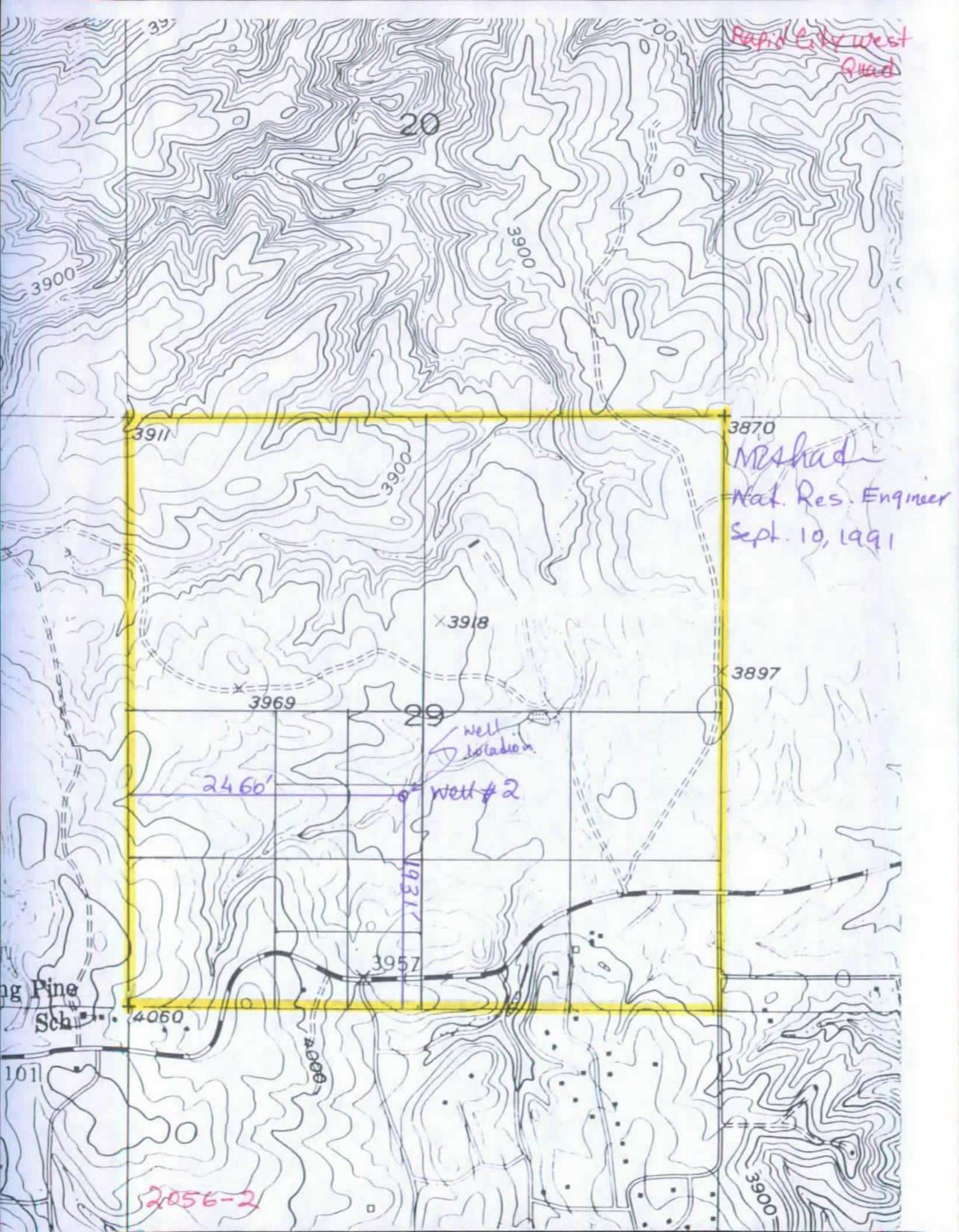
BM

4101

174a-2



Rapid City west
Quad



Meshad
Nat. Res. Engineer
Sept. 10, 1991

Well
location.
Well #2

2460'

1931'

2056-2

g Pine
Sch

1011



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

DIVISION II

**TEMPORARY PERMIT TO USE PUBLIC WATERS
FOR TESTING PURPOSES**

This temporary permit to use public waters for testing purposes is issued to Countryside Homeowners, of PO Box 9111, Rapid City, SD 57709 authorizing withdrawal of 36,000,000 gallons of water at a maximum rate of 100,000 gallons per day from ground water (Madison formation) located in the SE ¼ Section 29, T1N, R7E, Pennington County. The water will be blended with existing Deadwood formation well water to try and reduce the radium level.

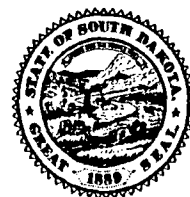
- The well authorized by this temporary water use permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
- The well authorized under this temporary water use permit may be located near domestic wells and other wells which may obtain water from the same aquifer. The well owners, under this temporary water permit, shall control his withdrawals so there is not a reduction of needed water supplies in other wells.
- When the project is completed and the water is no longer needed for testing purposes, the well must be either plugged pursuant to Board Rules, Chapter 74:02:04, turned over to a private land owner, or converted to a production well.

This temporary permit becomes effective January 28, 2002 and expires on December 31, 2002. If the test is successful and Countryside Homeowners begin using the well on a permanent basis, a new water permit must be obtained.

This permit does not provide necessary right-of-way. Such arrangements should be made with the proper land owner.

Issued: January 28, 2002

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



c: Rob Kittay, Office of Drinking Water
faxed to Robert Powles at (605) 787-5271

Water Rights Program - File Documentation

NAME: Bob Powles

ADDRESS: Piedmont SD

DATE: 2-25-2002 **COUNTY:** MD **TELEPHONE:**

RE: Well completion reports

COMMENTS:

On February 20 & 21, 2002, I sent letters to Mr. Powles regarding well completion reports. Mr. Powles called 2-25-02 and stated he had talked with Ken Buhler about all of the wells.

Regarding the **Countryside North well**, they received authorization for a temporary permit for one year. At the end of a year they will determine if an additional permit will be necessary.

Regarding the **Cobble Stone Mobile Home well**, he stated this well serve Cobble Stone and also be a back up supply for Northdale Subdivision. They would be making application in the near future.

Regarding the **Spring Canyon Estates well**, they have received permission to drill test hole into Deadwood Formation. This well may fall under SDCL 46-5-13.1 as an additional diversion point with no additional water appropriated. Mr. Powles understood that they would need to file an application so this determination could be made.



Karen Schlaak
Environmental Scientist



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 20, 2002

Bob Powles
HC 80 Box 483
Piedmont SD 57769

Dear Mr. Powles:

I am writing in regard to two well driller reports filed by Cimarron Drilling Inc. One report shows a new well was completed for Countryside North on December 1, 2001. A review of our files indicates that Countryside Homeowner's Association holds Water Right No. 2056-2 for 135 gallons per minute (gpm) from two wells located in the SW ¼ Section 29-T1N-R7E. Is this well a replacement well or an additional well?

South Dakota Codified Law 46-5-13.1 provides that a point of diversion may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

The other report is for Cobble Stone Mobile Home completed on August 30, 2001 and located in the NE ¼ Section 17-T2N-R7E. I did not find record of any existing water right. Based on the information, it appears a water permit will be required for this water use. Enclosed is a set of application forms.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

A handwritten signature in cursive script that reads "Karen Schlaak".

Karen Schlaak
Water Rights Program
605 773-3352

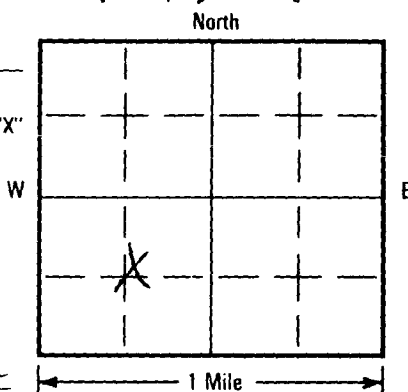
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location well 104 1/4 SW 1/4 Sec 29 Twp 1-N Rg 7-ECounty Pennington

Please mark well location with an "X"



Well Completion Date

1207-01

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 350 ft. from Septic (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary Air - WaterCASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>15.5</u> LB/FT	<u>5 1/2</u> IN	<u>0</u> FT	<u>455</u> FT	<u>7 7/8</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>Portland</u>	<u>65</u>	<u>94 1/2</u> lb./gal	<u>0</u> ft.	<u>455</u> ft.
<u>Type I-II</u>		_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure Pressure grout thru casing
displace with water to surface with mud pumpSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN 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: Chlorine☐ NO, Why Not? Pelletts

Laboratory sent to for water quality analysis

Bob Pawles To Complete

Well Owner:

Business Name:

Address:

WELL LOG:

DEPTH

FORMATION	FROM	TO
Red Shale (OP Eche)	0'	150'
Yellow, white & Pink Sand	150'	370'
Red Shale	370'	380'
Yellow & Red Stone	380'	450'
Yellow & White Sand w limestone ledges (Minnelusa)	450'	610'

STATIC WATER LEVEL

350

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped

Describe:

☐ Bailed☒ Other

Pumping Level Below Land Surface

610 ft. After 2 Hrs. blew 60+ GPM400 ft. After 1 Hrs. blew 25+ GPMIf pump installed, pump rate 10 HP @ 500' 40 GPM

REMARKS

RECEIVED

FEB 15 2002

This well was drilled under license # 568

WATER RIGHTS PROGRAM

And this report is true and accurate.

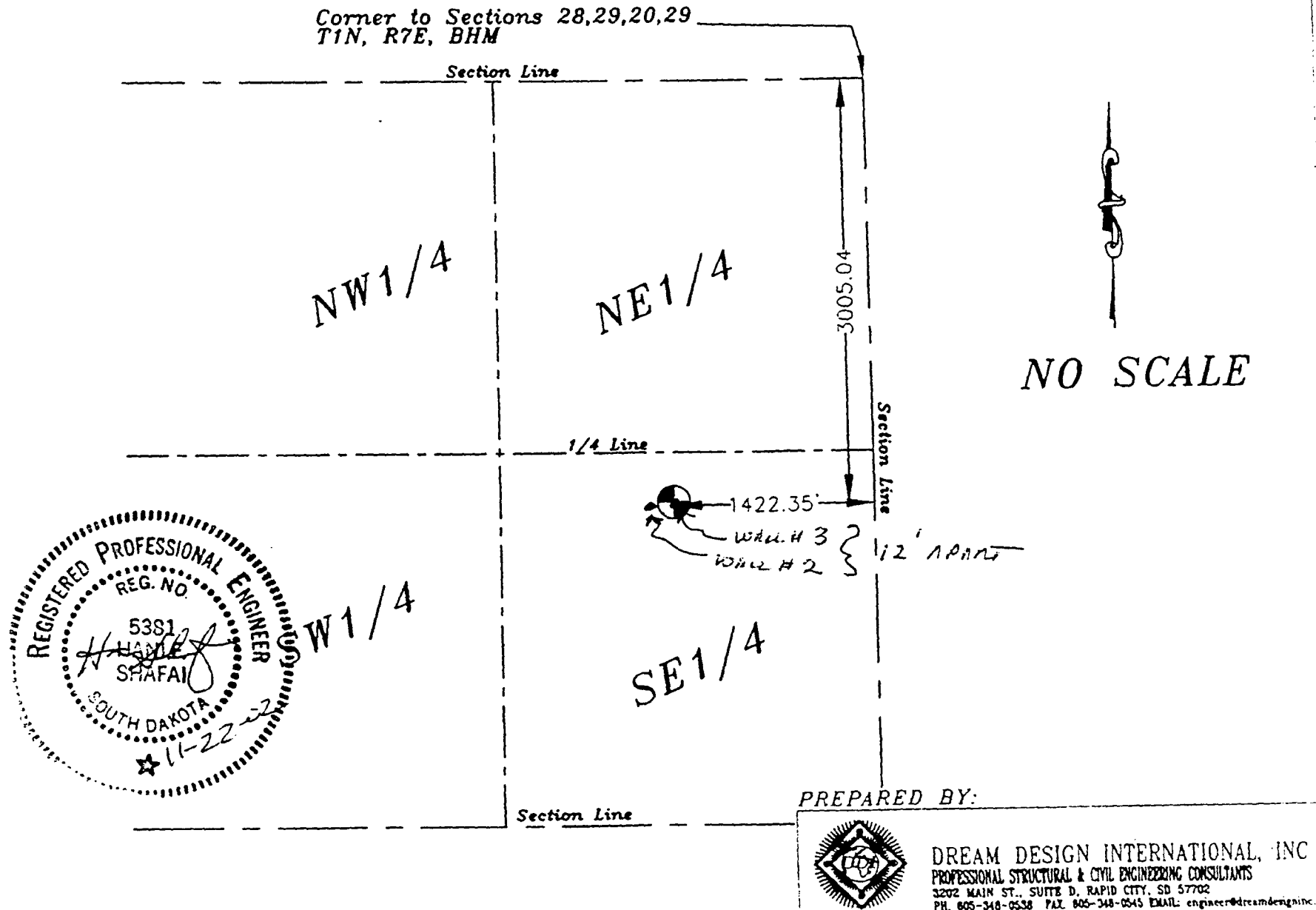
Drilling firm

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

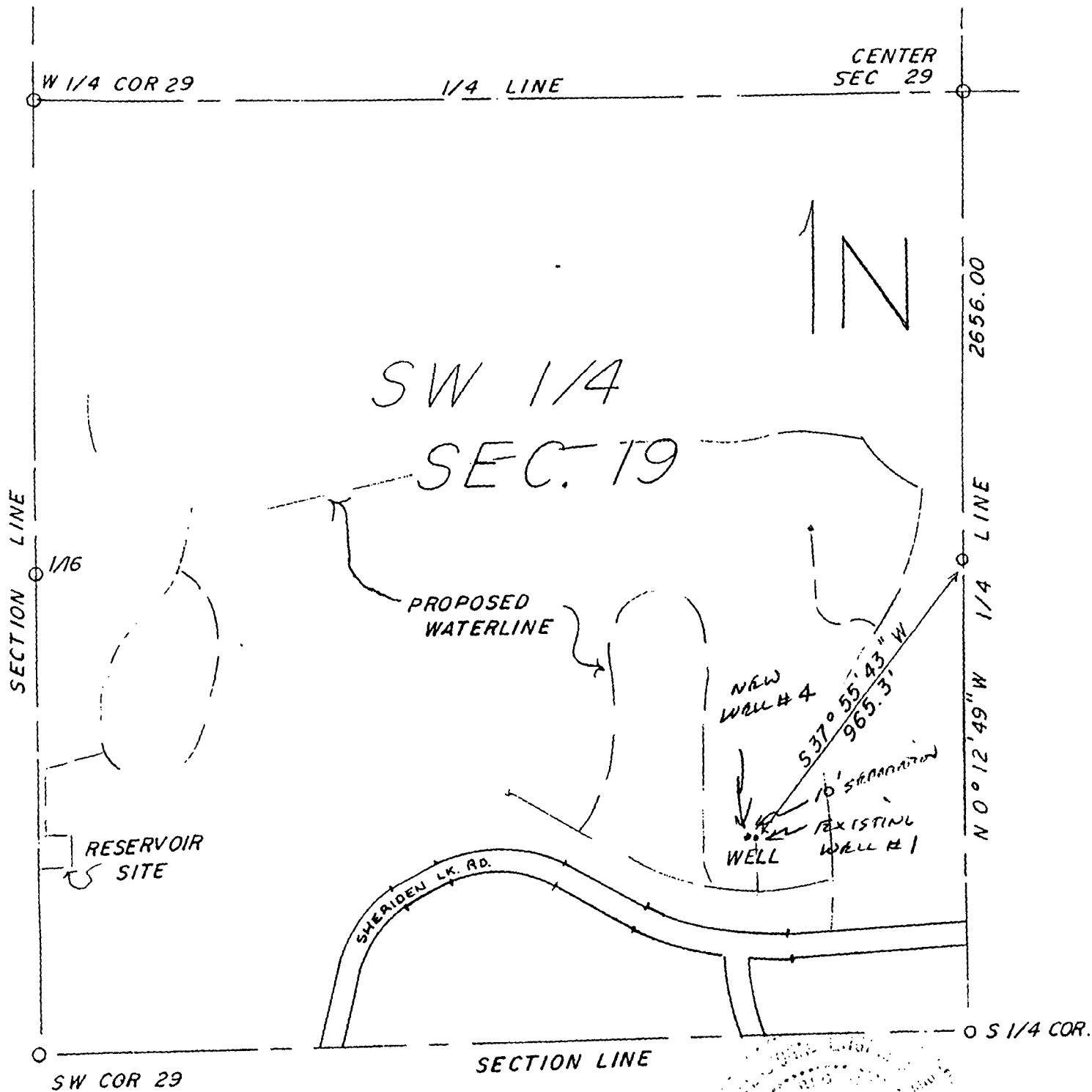
Date:

Exhibit "A" Showing Location of Well in Section 29 T1N, R7E, BHM



WELL LOCATION AND PROPOSED WATER LINE LOCATIONS

SW 1/4 SECTION 29, T1N, R7E, BHM
Pennington County, South Dakota



Jimmy Wilson
S.D. Land Surveyor
No. 2696
2/2/81

2498-2

**NOTICE OF
APPLICATION NO. 2498-2
TO APPROPRIATE WATER
and to correct**

Water Right No. 2056-2

Notice is given that Country-side Homeowner's Association, c/o Robert Powles, P.O. Box 9111, Rapid City, SD 57709, has filed an application for a water permit to appropriate a total of 0.324 cubic feet of water per second (cfs) from two wells with one located in the Minnelusa and the other in the Madison Aquifer. Specifically, the application is to appropriate 0.111 cfs (50 gallons per minute) from an existing well (Minnelusa Aquifer) 410 feet deep located in the NW¼ SE¼ Section 29, T1N, R7E and 0.222 cfs (100 gallons per minute) from another existing well (Madison Aquifer) 740 feet deep located in the SE¼ SW¼ Section 29-T1N-R7E. The water is for a suburban housing development.

This application also serves to correct the location of an existing well. Water Right No. 2056-2 authorized 0.30 cfs from two wells (Deadwood Formation) located in the SE¼ SW¼ and the NE¼ SW¼ Section 29. The actual location of the two wells is the SE¼ SW¼ and the NW¼ SE¼ Section 29-T1N-R7E.

Pursuant to SDCL 46-1-14 and 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2498-2 with a 20 year limitation on the Madison Aquifer well pursuant to SDCL 46-1-14 and 46-2A-20 because 1) unappropriated water is available from the Minnelusa Aquifer, 2) although evidence is not available to justify issuing this permit without a 20 year term limitation for the Madison Aquifer portion of this application, there is reasonable probability that unappropriated water is available from the Madison Aquifer for the applicant's proposed use, 3) the proposed diversion can be developed without unlawful impairment of existing rights, 4) the proposed use is a beneficial use, and 5) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the 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 the 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 also 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 March 31, 2003.

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

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS

County of Pennington)

I, Patricia K. Van Patten

certify that the attached printed Notice was taken

from the Rapid City Journal

printed and published in Rapid City

County of Pennington and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

March 12, 2003

March 19, 2003

Cost of Printing One hundred twenty-two

dollars and seventy-two^{cents} (\$122.72)

Patricia K. Van Patten
(Signature)

Legal Advertising Representative
(Title)

3/19/03
(Date Signed)

RECEIVED
MAR 20 2003
WATER RIGHTS
PROGRAM

Water Rights Program - File Documentation

NAME: Countryside Homeowners Assoc.

ADDRESS: Rapid City

DATE: 3-24-03 **COUNTY:** PE **TELEPHONE:**

RE: Reissued Water License No. 2056-2

COMMENTS:

When Water Permit No. 2498-2 was submitted it was determined that Water License No. 2056-2 was issued with an incorrect well location for Well No. 2. The well location as identified on a topographic map prepared by Rassool Ahadi dated Sept 10, 1991 was incorrect.

The public notice for Water Permit No. 2498-2, published March 12 and 19, 2003, included a paragraph correcting the description of the well locations authorized by Water License No. 2056-2. The correct location of the two wells is the SE $\frac{1}{4}$ SW $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$ section 29-T1N-R7E (see maps prepared by Hanle Shafai and Jimmy Hilcon).

The license is being reissued to reflect the correct well locations.


Karen Schlaak
Environmental Scientist

**STATE OF SOUTH DAKOTA
REISSUED
WATER LICENSE NO. 2056-2**

(1) Countryside Homeowner's Association, PO Box 9111, Rapid City SD 57709 was issued Water License No. 2056-2, June 11, 1997 for a water right to divert 0.30 cubic feet of water per second (cfs) from groundwater (two wells), Pennington County, South Dakota for suburban housing development purposes. Water License No. 2056-2, with priority dates of February 13, 1981 and May 20, 1988 was issued to the permit holder with construction of the described water supply system and the application to beneficial use of water completed.

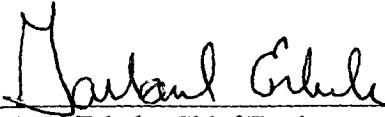
Water Right No. 2056-3 was readvertised on March 12 and 19, 2003 (in conjunction with public notice of Permit No. 2498-2) to correct an error in the legal description of the well locations. The water license is being reissued to reflect the correct the well locations.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 2056-2 is issued a license, bearing priority dates of February 12, 1981 (Well No. 1) and May 20, 1988 (Well No. 2) to appropriate 0.30 cubic feet of water per second from groundwater (two wells) for suburban housing development purposes.

The diversion points are located: Well No. 1 – SE ¼ SW ¼ and Well No. 2 – NW ¼ SE ¼ ; Section 29-T1N-R7E.

(3) This reissued license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 2056-2 including the following now applicable qualifications:

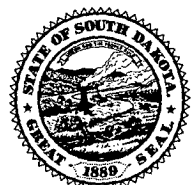
- The wells authorized by No. 2056-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
- The wells 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.
- Combinations of diversions may not exceed 0.30 cfs.



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

JUN 21 2003

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 21 2003

Countryside Homeowner's Association
PO Box 9111
Rapid City SD 57709

Dear Sir:

Enclosed is Water Permit No. 2498-2 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the water permit. In conjunction with the public notice for No. 2498-2, Water Right No. 2056-2 was readvertised to correct an error in the legal description of the well locations. Reissued Water License No. 2056-2 is also enclosed.

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

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

Sincerely,

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

enclosures