

WATER PERMIT NO. 1794-1

Name of Applicant: Vita Royal Prod Inc.

Address: 4267 S State Rd, Davison MI 48423

Phone: 810 653-5478

Amount of Water Claimed: 75 gpm (0.17 cfs)

Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: commercial

County: Meade

Type of Waste Disposal System:

Location: 7 miles east of Piedmont

PRIORITY Date Received: 5-2-2003

Application/License Fee: \$200

Corrected Application Received: 5-20-03

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SE ¼ SE ¼ Sec 14-T3N-R7E

Land to be Irrigated: NA

Depth of Well: 1210 feet deep

Well Driller: : Taylor Drilling

Remarks:

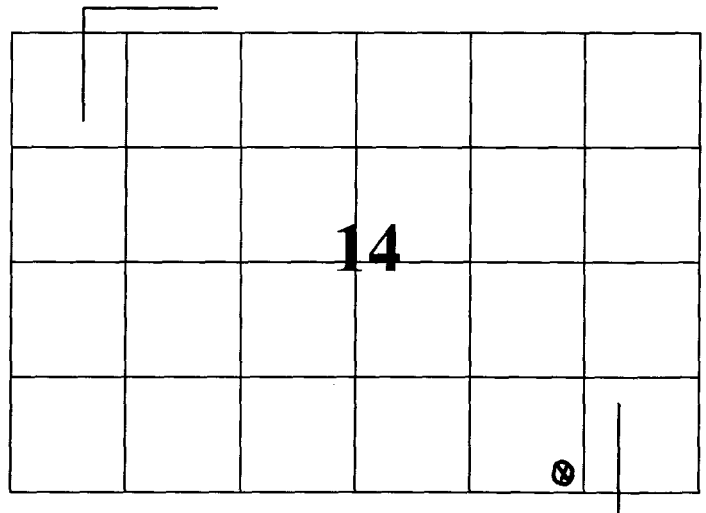
Type of Map: aerial

Prepared by: Eric Gronlund

Reviewed and the Number Assigned on: 5-20-03

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 1794-1**

Date of first receipt of application May 2, 2003.

Date of return to applicant for corrections, amendments or changes May 5, 2003.

Date of receipt of corrected application May 20, 2003.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1794-1 to Vita Royal Products, Inc., c/o Linsey McLean, 14390 Edgewood Place, Piedmont SD 57769 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. 1794-1 appropriates 0.17 cubic feet of water per second (75 gallons per minute) from one well (Inyan Kara Formation) 1210 feet deep located in the SE ¼ SE ¼ Section 14-T3N-R7E.
2. The water appropriated shall be used for the purpose of commercial use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1794-1 is August 25, 2003.
5. The date from which applicant may claim right is May 2, 2003.
6. One-fifth of the construction is to be completed on or before February 25, 2006.
7. All construction is to be completed on or before August 25, 2008.
8. Water is to be put to beneficial use on or before August 25, 2012.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

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.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

AUG 28 2003

date



FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>1794-1</u>	(office use only) Hydrologic Unit <u>10120111</u>	RECEIVED MAY 02 2003 WATER RIGHTS PROGRAM
	Basin <u>Upper Cheyenne</u>		
	Newspaper <u>Meade Co. Times-Tribune, Sturgis</u>		

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

Check use(s) of water:

Municipal
Rural Water System
Domestic (over 18 gpm)

Suburban Housing
Commercial
Industrial

Recreational
Fish & Wildlife
Other

Institutional
Geothermal Heat

Type of Application:
(check one)

New

Vested Right (Use predates Mar 2, 1955)

Future Use Reservation

Place to Beneficial Use Water Reserved by Future Use Permit No. _____

Amendment/Correction to Permit No. _____

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

14390 Edgewood Place, Piedmont SD 57769

1. Name of Applicant VITA Royal Prod Inc Phone MI #810-653-5478
(check one) Owner Tenant/lessee
Mailing Address No local yet - MI ADDRESS - 4267 S STATE State MI 48423
(Street, RR, or Box and City) DAVISON, MI (Zip Code)
2. Amount of water claimed 25 WELL PROD CFS or 0.17 CFS **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply NEW WELL
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County MEADE
SE 1/4 SE 1/4 Sec 14 - T3N-R7E

5. County or counties where water will be used SAME
6. Annual period during which water is to be used ALL YEAR FOR OFFICE & Jan 1-Dec 31 PRODUCTION
7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
OFFICE USE, TOILETS ETC, plus PRODUCTION OF NUTRITIONAL SUPPLEMENTS & HEALTH FOOD & PROD.

STATE OF SOUTH DAKOTA)
County of MEADE SS

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

I, LINSEY McLEAW, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Linsy McLean

Subscribed and sworn to before me this 15 day of April 20 03

ANTHONY P. ZITO
NOTARY PUBLIC ST. CLAIR CO., MI
MY COMMISSION EXPIRES Mar 30, 2004
ACTING IN GENESEE COUNTY, MI

Anthony P. Zito
Notary Public signature

(type or print in ink)

1. Well Information - Proposed Construction

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

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) *septic for toilet, greywater holding for production waste to be used for irrigation*
- b) System Capacity (gallons) *1500 x 2* Year Constructed *2003*
- c) Connected to the City of *N/A* Sanitary System _____

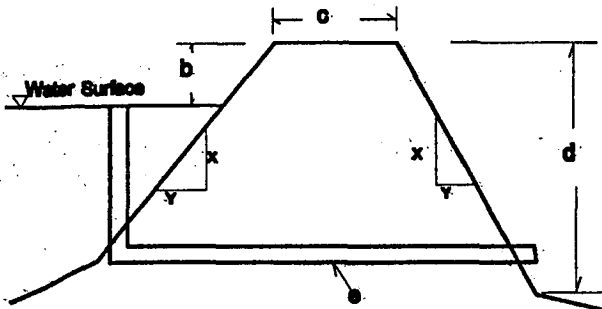
3. Dugout Information

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

4. Water Storage Dams

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

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



- 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 _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 5, 20 03

RECEIVED OF Vita Royal Products, Inc., 4267 S State Road, Davison MI 48423

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	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law) TOTAL	150.00	

No.

000740

By

Darland White

Chief Engineer

gm

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 20, 20 03

RECEIVED OF Vita Royal Products Inc., 4267 S State Road, Davison MI 48423

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

Fee for Application for Permit No. <u>1794-1</u> to Appropriate Water, to construct 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. <u>1794-1</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50.00

No.

000722

By Darlan S. Ethel
Chief Engineer gm

my house



SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SE 1/4 SE 1/4 Sec 14 Twp 3N Rg 7ECounty Meade

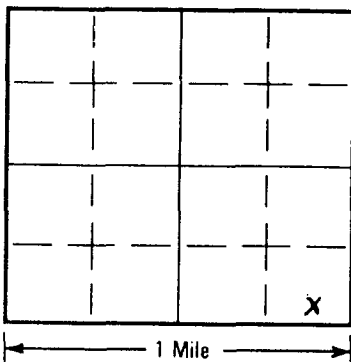
North

Please mark well location with an "X"

W

E

Well Completion Date

1-28-03

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 150 ft. from Septic (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Mud RotaryCASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>26.4</u> LB/FT	<u>2 3/8</u> IN	<u>0</u> FT	<u>43</u> FT	<u>9 7/8</u> IN
<u>15.5</u> LB/FT	<u>5.5</u> IN	<u>+2</u> FT	<u>1200</u> FT	<u>6 3/4</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Portland 1-11</u>	<u>13</u>	<u>14.5</u> lb./gal	<u>0</u> ft.	<u>43</u> ft.
<u>Portland 1-11</u>	<u>200</u>	<u>14.5</u> lb./gal	<u>0</u> ft.	<u>1200</u> ft.

Describe grouting procedure Pressure grouted through casingSCREEN: ☐ 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 solution
☐ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Linsey McLean

Business Name: _____

Address: G 4267 S. State Rd.Davison, MI 48423

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>BLK. shale - Brown Clay</u>	<u>0</u>	<u>30</u>
<u>Belle Fourche</u>	<u>30</u>	<u>372</u>
<u>Mowry</u>	<u>372</u>	<u>530</u>
<u>New castle</u>	<u>530</u>	<u>560</u>
<u>Skull creek</u>	<u>560</u>	<u>793</u>
<u>Fall River - Lakota</u>	<u>793</u>	<u>1083</u>
<u>Morrison</u>	<u>1083</u>	<u>1112</u>
<u>UNK PAPA</u>	<u>1112</u>	<u>1130</u>
<u>Sundance</u>	<u>1130</u>	<u>1210</u>

STATIC WATER LEVEL 30' 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: Air Developed☐ Bailed _____☒ Other _____

Pumping Level Below Land Surface

400 ft. After 4 Hrs. pumped 60 GPM200 ft. After 2 Hrs. pumped 30 GPM

If pump installed, pump rate _____ GPM

REMARKS

wire line Perforated
1065' - 1080'
2 shots Per Ft. (23 gram shots)

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm Taylor Drilling

Signature of License Representative:

K Tyl

RECEIVED

Signature of Well Owner or Equitable Property Holder:

ALPWATER RIGHTS
PROGRAM

Date: _____



MIDCONTINENT
TESTING LABORATORIES

LINDSAY McLEAN
VITA ROYAL PRODUCTS INC.
4267 S. STATE RD
DAVISON, MI 48423

NEW
Vita Royal Well
SEC 114

SAMPLE ID: ENTRY POINT
EPA NUMBER:
SAMPLE DATE: 1/28/03
ACCOUNT NUMBER: 8861
LAB NUMBER: 20030120822
DATE RECEIVED: 1/20/03
DATE ANALYZED: 1/31/03
METHOD: EPA 524.2
UNITS: ug/L

PARAMETER:	ENTRY POINT ug/L	TRIP BLANK ug/L	MCL ug/L	EQL ug/L
<u>REGULATED VOLATILE ORGANICS</u>				
BENZENE	ND	ND	5	0.50
CARBON TETRACHLORIDE	ND	ND	5	0.50
CHLOROBENZENE	ND	ND	100	0.50
1,2-DICHLOROBENZENE	ND	ND	600	0.50
1,4-DICHLOROBENZENE	ND	ND	75	0.50
1,2-DICHLOROETHANE	ND	ND	5	0.50
1,1-DICHLOROETHENE	ND	ND	7	0.50
CIS-1,2-DICHLOROETHENE	ND	ND	70	0.50
TRANS-1,2-DICHLOROETHENE	ND	ND	100	0.50
1,2-DICHLOROPROPANE	ND	ND	5	0.50
ETHYLBENZENE	ND	ND	700	0.50
METHYLENE CHLORIDE	ND	ND	5	0.50
STYRENE	ND	ND	100	0.50
TETRACHLOROETHENE	ND	ND	5	0.50
TOLUENE	ND	ND	1000	0.50
1,2,4-TRICHLOROBENZENE	ND	ND	70	0.50
1,1,1-TRICHLOROETHANE	ND	ND	200	0.50
1,1,2-TRICHLOROETHANE	ND	ND	5	0.50
TRICHLOROETHENE	ND	ND	5	0.50
VINYL CHLORIDE	ND	ND	2	0.50
TOTAL XYLENES	ND	ND	10000	1.0
<u>UNREGULATED VOLATILE ORGANICS</u>				
BROMOBENZENE	ND	ND		0.50
BROMOCHLOROMETHANE	ND	ND		0.50
BROMOMETHANE	ND	ND		0.50
N-BUTYLBENZENE	ND	ND		0.50
SEC-BUTYLBENZENE	ND	ND		0.50
T-BUTYLBENZENE	ND	ND		0.50
CHLOROETHANE	ND	ND		0.50
CHLOROMETHANE	ND	ND		0.50
2-CHLOROTOLUENE	ND	ND		0.50
4-CHLOROTOLUENE	ND	ND		0.50
DIBROMOMETHANE	ND	ND		0.50
DICHLORODIFLUOROMETHANE	ND	ND		0.50
1,3-DICHLOROBENZENE	ND	ND		0.50
1,1-DICHLOROETHANE	ND	ND		0.50


MIDCONTINENT
 TESTING LABORATORIES

 Sec 14
 New Vita Royal Well

 SAMPLE NAME: SAMPLE #2
 DESCRIPTION:
 SAMPLE DATE: 01/20/03
 SAMPLE TIME: 13:30 PM
 SAMPLED BY: R. TAYLOR

 LINDSAY McLEAN
 VITA ROYAL PRODUCTS INC.
 4267 S. STATE RD
 DAVISON, MI 48423

 ACCOUNT NUMBER: 8766
 LAB NUMBER: 20030120822
 DATE RECEIVED: 01/20/03
 TIME RECEIVED: 14:10 PM
 REPORT DATE: 01/24/03

<u>PHYSICAL PROPERTIES</u>	<u>VALUE</u>	<u>METALS mg/l</u>	<u>DISSOLVED</u>	<u>TOTAL</u>
Conductivity, umhos/cm	696.	Aluminum	.	<.050
Hardness	80.8	Antimony	.	.
PH	8.18	Arsenic	.	<.005
Solids, Dissolved, mg/l	418.	Barium	.	0.021
Solids, Suspended, mg/l	.	Beryllium	.	<.001
Turbidity, NTU	.	Boron	.	.
		Cadmium	.	<.001
		Calcium	22.2	.
		Chromium	.	<.001
		Cobalt	.	.
		Copper	.	<.005
		Gold	.	.
		Iron	.	0.750
		Lead	.	0.001
		Lithium	.	.
		Magnesium	6.15	.
		Manganese	.	0.067
		Mercury	.	<.0002
		Molybdenum	.	.
		Nickel	.	.
		Potassium	4.57	.
		Selenium	.	<.005
		Silicon	.	.
		Silver	.	<.001
		Sodium	111.	.
		Strontium	.	<1.00
		Vanadium	.	.
		Zinc	.	<.050

<u>INORGANIC & NONMETALLIC</u>	<u>VALUE</u>
Acidity	.
Alkalinity	184.
Bicarbonate	225.
Carbonate, mg/l	0.00
Chloride, mg/l	2.75
Cyanide, Total, mg/l	.
Cyanide, WAD, mg/l	.
Cyanide, Free, mg/l	.
Fluoride, mg/l	0.502
Nitrogen, Ammonia, mg/l	.
Nitrogen, Nitrate, mg/l	<.050
Nitrogen, Nitrite, mg/l	<.050
Sulfate, mg/l	155.

<u>SPECIAL TESTS</u>	<u>VALUE</u>
HARDNESS-GRAINS	4.7

 2381 South Plaza Drive
 P.O. Box 3388
 Rapid City, SD 57709
 Ph 605/348-0111
APPROVED BY: Steve PetersDATE: Jan. 24, 2003

03 15:26

3032781528

PAGE 02

New Vita Royal Well
Sec. 14**Hazen Research, Inc.**

4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 278-4501
Fax: (303) 278-1528

DATE March 8, 2003
HRI PROJECT 002-BS4
HRI SERIES NO. A347/03
DATE REC'D 01/28/2003
CUST. P.O.# None Rec'd

Vita Royal Products Inc.
Lindsay McLean
4267 S. State Road
Davison, MI 48423

REPORT OF ANALYSIS

SAMPLE NO. A347/03-1

SAMPLE IDENTIFICATION: 20030120822 - Sample #2 - sampled on 01/20/2003 @ 1330

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radium-228 (+-Precision*), pCi/l (T)	1.9(+0.5)	0.1	SM 7500-Ra B	02/25/2003 @ 1743	MA/EDF
Radium-228 (+-Precision*), pCi/l (T)	0.7(+0.6)	0.5	EPA Ra-05	02/25/2003 @ 1330	EDF
Uranium, pCi/l (T)**	<1	1	ASTM D2907-91	02/03/2003 @ 2151	MRA
Uranium, ug/l (T)	<2	2	ASTM D2907-91	02/03/2003 @ 2151	MRA

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA - CO00008; CT - PH-0152; KY - 90078; KS - E-10265; NH - 232801-A;
NY ELAP - 11417; PA DEP 68551; WI - 998376610

**Uranium results reported assuming the activity of natural U = 8.77×10^{-7} Ci/gm.

CODES:

(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than

By:

Robert Rostad
Robert Rostad
Laboratory Manager

An Employee-Owned Company

Linsey McLean, Biochemist
Vita Royal Products, Inc.

4267 S. State Road, Davison, MI 48423

Phone: (810) 653-5478

Fax: (810) 653-2543

www.vitaroyal.com

TO: KEN BUELLER
RE: WATER PERMIT

I received a letter from your office requesting an exact location of the new well. Here is the report I received from the well driller, showing the location & legal description. If this is not sufficient, please contact me. Thank you.

Linsey McLean



May 5, 2003

Linsey McLean
Vita Royal Products, Inc.
4267 S State Rd
Davison MI 48423

Dear Ms. McLean:

Thank you for submitting the *Application for a Permit to Appropriate Water* for commercial use. In order to complete the application the following is required.

Please complete Item No. 4 of the application listing the location of the point of diversion (well).

A map showing the location of the well in relation to a government section corner or quarter corner by direction and distance is required. The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties. Our suggestion is to obtain an aerial photo map from the local Natural Resources Conservation Service for Meade County in Sturgis SD. Someone from that office would also be qualified to sign the map.

We have received the \$150 application filing fee. In addition to the application filing fee, the Water Rights Program collects the \$50 licensing fee at the time of filing. Please submit \$50 for the licensing of the water permit.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

att:

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

RECEIVED

MAY 20 2003

WATER RIGHTS
PROGRAM

WATER PERMIT APPLICATION NO. 1794-1
VITA ROYAL PROD INC.
JULY 15, 2003

Water Permit Application No. 1794-1 proposes to appropriate 0.17 cubic feet of water per second (75 gallons per minute) from one well (Inyan Kara aquifer), 1210 feet deep located in the SE¼ SE¼ Sec. 14, T3N-R7E, in Meade County. The water is for commercial use.

AQUIFER: Inyan Kara (INKR)

GENERAL:

The Inyan Kara aquifer consists of the Fall River Formation and the underlying Lakota Formation. The Fuson Shale sometimes separates these two formations, but it is often difficult to differentiate the bottom of the Fall River from the top of the Lakota. The two formations are probably hydraulically connected and therefore can be considered a single aquifer. In general, the Inyan Kara aquifer consists of interbedded sandstone (thin bedded to massive), siltstone, and shale. The aquifer is areally extensive, underling over 36,000 square miles of western South Dakota (Allen and others, 1984). The aquifer underlies 2,107,520 acres and contains an estimated 36,354,720 acre-feet of recoverable water in storage in Meade County alone county (Allen and others, 1984). This well site is approximately three miles east of the outcrop (recharge area) of the Inyan Kara. The top of the aquifer is reported to be 793 feet below grade on the "South Dakota Well Completion Report" that accompanies this application. The static water level of this well was reported to be 30 feet below grade and the well produced 60 gallons per minute during air development.

WATER AVAILABILITY:

Water Rights Program monitors seven observation wells completed into the Inyan Kara Aquifer in the Black Hills Area. Hydrographs of most of these wells indicate the aquifer is in dynamic equilibrium showing only minor changes in water level corresponding with seasonal or climatic conditions. The nearest observation well to this permit, MD-99A, is located approximately three mile northwest of this well. The hydrograph for this well, figure 1, clearly demonstrates the aquifer is recharged and in general, water levels of the aquifer have remained relatively constant over the period of record.

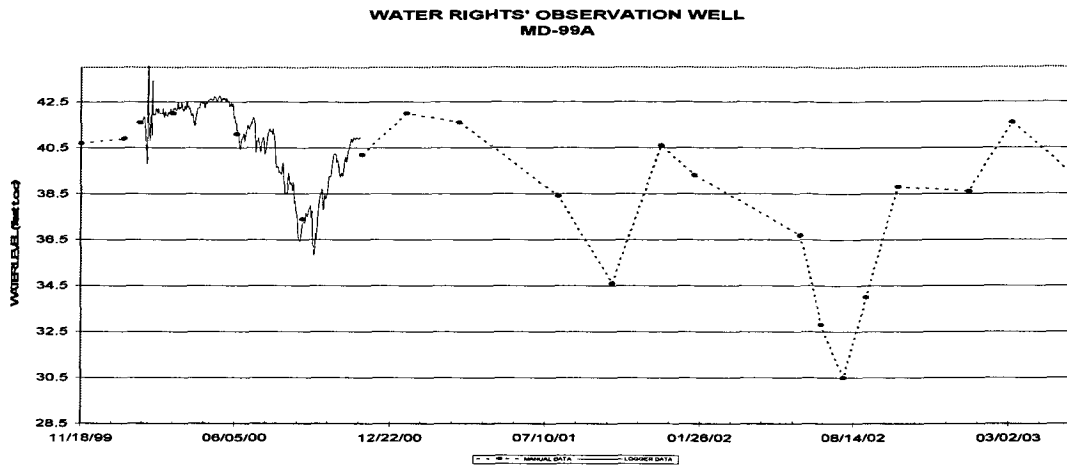


Figure 1. Hydrograph of Inyan Kara Observation Aquifer Well located approximately three miles northwest of the well to be used for 1794-1

A second observation well, PE-95E is located approximately six miles south-southeast of 1794-1. The hydrograph for the well is included in figure 2.

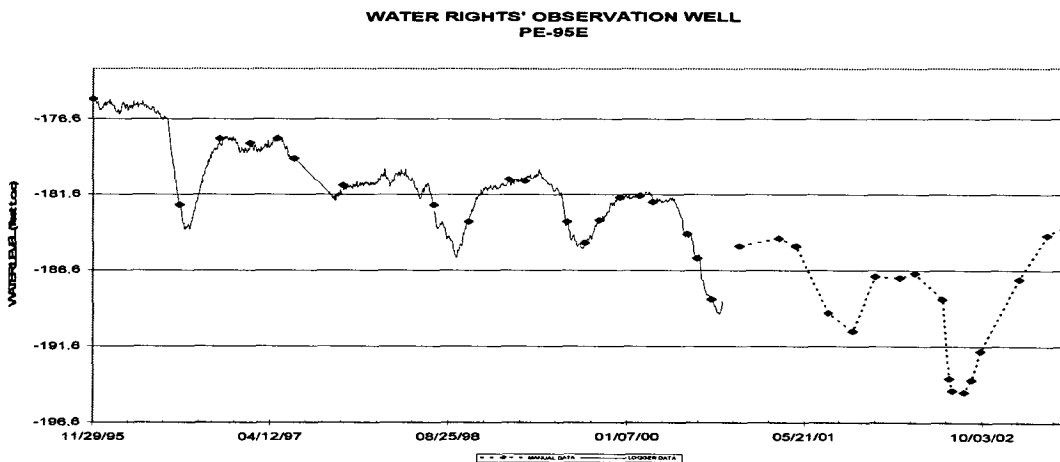


Figure 2. Hydrograph of Inyan Kara Observation Aquifer Well located approximately six miles south-southeast of the well to be used for 1794-1

The hydrograph information indicates water is available for this appropriation (Water Rights, 2003b).

EXISTING WATER RIGHTS:

There are several domestic well logs on file for wells completed into the Inyan Kara Aquifer in this area (Water Rights, 2002a).

The Inyan Kara Aquifer has been developed in at least 23 counties in South Dakota with 136 Water Rights/Permits (Water Rights, 2003c). There are 24 rights/permits appropriating water from the Inyan Kara Aquifer in Meade County. There are nine groundwater Permits/ Water Rights

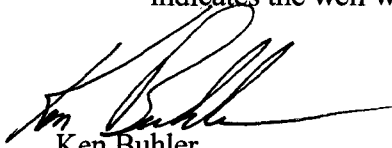
appropriating groundwater within approximately four and one-half miles of the well that is to supply water for this application. Five of these Water permits/rights appropriate from the Inyan Kara aquifer, they include:

Permit No	Name	cfs
1587-2	Weston Dev. Inc.	0.110
1597-1	Crooked Oaks Canyon	0.10
1656-1	Lofty Pines Homeowners	0.085
1664-1	Buffalo Ridge Water Users	0.10
1700-1	Western Management Corp	0.111

Wells completed into aquifers other than the Inyan Kara will not be affected by pumping from this well due to the hydraulic separation between the aquifers. The adequate wells completed into the Inyan Kara aquifer should not be adversely impacted by interference caused by pumping this well due to the low diversion rate proposed by this application and the distance between wells.

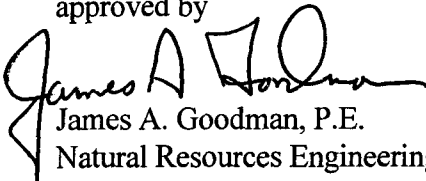
CONCLUSIONS:

1. The Inyan Kara Aquifer is a viable aquifer in this area, and water is available for this appropriation.
2. Well interference should not be a problem in this area.
3. The Completion Report supplied for the well to be used to supply this appropriation indicates the well was constructed in accordance with the SD Well Construction Standards.



Ken Buhler
Natural Resources Engineering Specialist

approved by



James A. Goodman, P.E.
Natural Resources Engineering Director

REFERENCES:

Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, Task 3 and 4: Groundwater Resource Inventory: South Dakota Department of Water and Natural Resources,

Carter, J.M., and Redden J.A., 1999a, Altitude of the Top of the Inyan Kara Group in the Black Hills Area, South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-744-A, 2 sheets, scale 1:100,000

Water Rights, 2003a, "Domestic Well Log Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

Water Rights, 2003b, "Observation Well Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

Water Rights, 2003c, "Water Permit Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1794-1, Vita Royal Prod, Inc.**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 1794-1, Vita Royal Prod, Inc., c/o Linsey McLean, 4267 S State Road, Davison MI 48423.

The Chief Engineer is recommending APPROVAL of Application No. 1794-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

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.

See report on application for additional information.

Garland Erbele, Chief Engineer
July 23, 2003



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

July 24, 2003

Vita Royal Prod Inc
%Linsey McLean
14390 Edgewood Pl
Piedmont SD 57769

Dear Ms. McLean:

Water Permit Application No. 1794-1 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Meade Co Times-Tribune printed at Sturgis, SD (Ph # 605-347-2503). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

July 24, 2003

Meade Co. Times-Tribune
PO Box 129
Sturgis SD 57785-0129

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 1794-1 to Appropriate Water to be published twice. Please publish the first notice on August 6, 2003 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 Vita Royal Products Inc., %Linsey McLean, 14390 Edgewood Place, Piedmont, SD 57769.

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 1794-1

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of July 24, 2003 enclosing Notice of Hearing to Appropriate Water by Application No. 1794-1 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 August 6, 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1794-1 to Appropriate Water

Notice is given that Vita Royal Prod Inc., % Linsey McLean, 14390 Edgewood Pl., Piedmont SD 57769 has filed an application for a water permit to appropriate 0.17 cubic feet of water per second (75 gallons per minute) from one well (Inyan Kara Formation) 1210 feet deep located in the SE ¼ SE ¼ Section 14-T3N-R7E. The water is for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1794-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on 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 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 August 25, 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.

AFFIDAVIT OF PUBLICATION

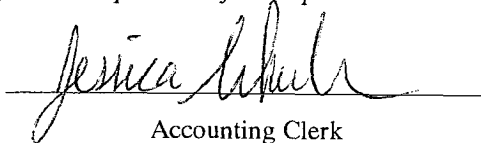
STATE OF SOUTH DAKOTA
COUNTY OF MEADE

Jessica Wheeler, Being duly sworn, says, That the Meade County Times/Black Hills Press is and, during all times hereinafter mentioned, is a legal newspaper as defined in SDDCL 17-2-2, as amended, published in Sturgis, Meade County, South Dakota, by Country Media, Inc.; that affiant is and, during all of said times, was employed as an accounting clerk by the publisher of such newspaper and has personal knowledge of the facts stated in the affidavit; that the notice, order or advertisement, a copy of which is attached, was published in said newspaper for the issue (s) bearing the following dates:

<u>August 6</u>	<u>2003</u>	<u>200</u>
<u>August 13</u>	<u>2003</u>	<u>200</u>
<u>200</u>		<u>200</u>
<u>200</u>		<u>200</u>
<u>200</u>		<u>200</u>

That the full amount of the fee charged for publishing the same, to-wit the sum of

\$ 35.97, I insure solely to the benefit of the publisher of said newspaper; that no agreement or understanding for the division of the fees has been made with any person, and that no part of the fee has been agreed to be paid to any other person.


Accounting Clerk

Subscribed and sworn before me this

18 Day of Aug 2003


Notary Public, South Dakota

My Commission expires

July 8, 2007

Water application

NOTICE OF APPLICATION NO. 1794-1 to Appropriate Water

Notice is given that Vita Royal Prod Inc., % Linsey McLean, 14390 Edgewood Pl., Piedmont SD 57769 has filed an application for a water permit to appropriate 0.17 cubic feet of water per second (75 gallons per minute) from one well (Inyan Kara Formation) 1210 feet deep located in the SE1/4 SE1/4 Section 14-T3N-R7E. The water is for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1794-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on 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 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 August 25, 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.

Publ Aug. 6 and 13, 2003
Meade County Times-Tribune

RECEIVED

AUG 20 2003

WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 28 2003

Vita Royal Products Inc
%Linsey McLean
14390 Edgewood Place
Piedmont SD 57769

Dear Ms. McLean:

Enclosed is Water Permit No. 1794-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

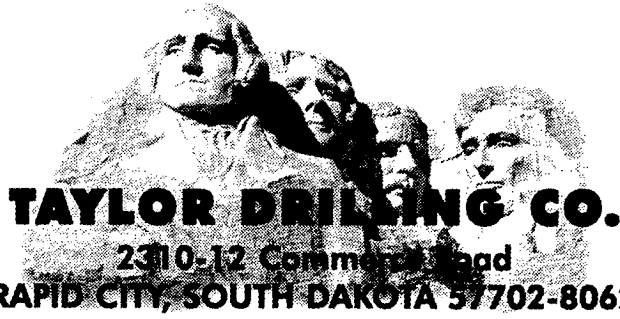
An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

1794-1



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

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

TO: Ken Buhler
SD DENR

FROM: Randy Taylor

DATE: January 3, 2003

RE: Water Well on Lindsey McLean Property

Taylor Drilling is requesting a permit to construct a test well pursuant to section 74:02:04:21 of the South Dakota Well Construction Code. The well is to be located in the SE 1/4 of Section 14, T 3N, R 7E, and will be drilled to the base of the Lakota Formation. The well will be constructed with 5 1/2 inch diameter casing and will be cement grouted to total depth, which is approximately 1200 feet. It will be completed by gun perforating the productive sandstone layers in the Lakota Formation.

RECEIVED
JAN 06 2003
WATER RIGHTS
PROGRAM



1794-1

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 6, 2003

Randy Taylor
Taylor Drilling
2310-12 Commerce Road
Rapid City, SD 57702-8062

Dear Mr. Taylor:

As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, you are authorized to construct a test well for Lindsey McLean prior to approval of a water permit. The test well is to be completed into the Inyan Kara Aquifer in the SE¼ Section 14, T3N-R7E. The test well must be constructed in accordance with the SD Well Construction Standards. Any test holes that are abandoned must be plugged pursuant to the SD Well Construction Standards.

Very truly yours,

JAMES A. GOODMAN, P.E.
Natural Resources Engineer
for GARLAND ERBLE, Chief Engineer
Water Rights Program
(605) 773-3352

Permit No. 1794-1
Upper Cheyenne River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

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

I have this day, ⁰⁹~~September 21, 2010~~, made a thorough examination of the water use system constructed by **Vita Royal Products Inc** of **840 Husker Place** holder of Permit No. **1794-1**, bearing the priority of **May 2, 2003** authorizing the diversion of **0.17** cu. ft. per second of the waters of **Inyan Kara Formation** for **Commercial use** purposes, in **Meade** County.

Inspection contact & relationship **Linsey McLean**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Taylor Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **1210** feet
- 4) Well log is available **Y**

Casing:

- 1) Diameter **7 5/8 and 5 1/2** inches
- 2) Length **43 and 1,200** feet
- 3) Type **Steel**

Screen:

- 1) Type **Perforated**
- 2) Length **Between 1,065 and 1,080** feet
- 3) Static water level **30** feet

Pump:

- 1) Make **Grundfos**
- 2) Model **16S10-10**
- 3) Size **1 hp**
- 4) Capacity **16** GPM

B. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

Approximately 100 feet north and 250 feet west of the SE corner of Section 14-T3N-R7E

(N 44.21342, W -103.23265) (SE ¼ SE ¼)

The works are capable of diverting and conveying to the place of use 0.035 cu. ft. per second of water which is to be used for Commercial use.

The license should be issued for 0.035 cfs.

All structures, wells and lands on map Y

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



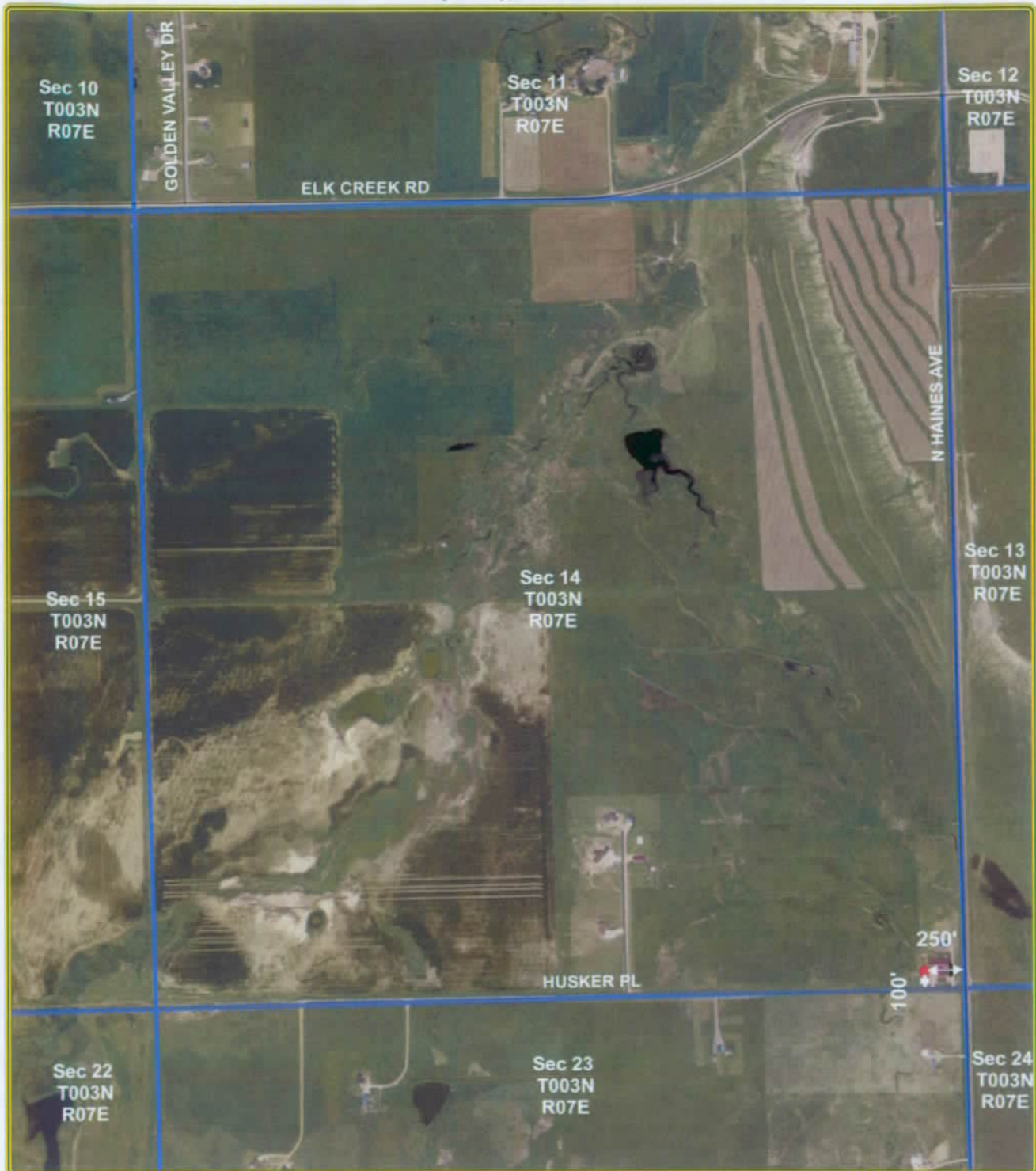
Mike DeFea

Natural Resources Project Engineer
DENR, Water Rights Program

Date report completed: May 20, 2010

Water Permit No. 1794-1

Vita Royal Products Inc
840 Husker Place
rapid City, SD 57701



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
May 20, 2010

0 440 880 1,760 2,640 3,520 Feet



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow... Today



**DEPARTMENT of ENVIRONMENT
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PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JUL 28 2010

1794-1

Linsey McLean
Vita Royal Products Inc
840 Husker Place
Rapid City SD 57701

Dear Ms. McLean:

Enclosed is Water License No. 1794-1. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 1794-1, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1794-1

(1) Vita Royal Products Inc, 840 Husker Place, Rapid City SD 57701 made Application No. 1794-1, May 2, 2003 for a water permit to divert 0.17 cubic feet of water per second from ground water – one well, Inyan Kara Formation, Meade County, South Dakota for commercial purposes. Permit No. 1794-1, with a priority date of May 2, 2003 was approved August 25, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before August 25, 2008 and for the application to beneficial use of said water on or before August 25, 2012.

(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 0.035 cubic feet of water per second for beneficial use. The location of the diversion point is

- 100 feet north and 250 feet west of the SE corner of Section 14, T3N, R7E (SE ¼ SE ¼).

(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 Vita Royal Products Inc, 840 Husker Place, Rapid City SD 57701 the holder and/or owner of Water Right No. 1794-1 is issued a license to appropriate water, the right to use 0.035 cubic feet of water per second from ground water – one well, Inyan Kara Formation with a priority date of May 2, 2003 from the location specified in (2) of this license for commercial use purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 1794-1 and subject to the following qualification:

- 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.



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

JUL 28 2010

date



Vita Royal Products, Inc.

Manufacturers of Quality Supplements

4267 S. State Rd., Davison, MI 48423

phone: (810) 653-5478

fax: (810) 653-2543

www.vitaroyal.com

KEN:

Here's the information
you asked for.

Linsey McLean



MIDCONTINENT
TESTING LABORATORIES

LINDSAY McLEAN
VITA ROYAL PRODUCTS INC.
4267 S. STATE RD
DAVISON, MI 48423

NEW
Vita Royal Well
SEC 14

SAMPLE ID: ENTRY POINT / NYA-KAR
EPA NUMBER:
SAMPLE DATE: 1/28/03
ACCOUNT NUMBER: 8861
LAB NUMBER: 20030120822
DATE RECEIVED: 1/20/03
DATE ANALYZED: 1/31/03
METHOD: EPA 524.2
UNITS: ug/L

PARAMETER:	ENTRY POINT ug/L	TRIP BLANK ug/L	MCL ug/L	EQL ug/L
<u>REGULATED VOLATILE ORGANICS</u>				
BENZENE	ND	ND	5	0.50
CARBON TETRACHLORIDE	ND	ND	5	0.60
CHLOROBENZENE	ND	ND	100	0.60
1,2-DICHLOROBENZENE	ND	ND	600	0.60
1,4-DICHLOROBENZENE	ND	ND	75	0.60
1,2-DICHLOROETHANE	ND	ND	5	0.50
1,1-DICHLOROETHENE	ND	ND	7	0.50
CIS-1,2-DICHLOROETHENE	ND	ND	70	0.50
TRANS-1,2-DICHLOROETHENE	ND	ND	100	0.50
1,2-DICHLOROPROPANE	ND	ND	5	0.50
ETHYLBENZENE	ND	ND	700	0.50
METHYLENE CHLORIDE	ND	ND	5	0.50
STYRENE	ND	ND	100	0.50
TETRACHLOROETHENE	ND	ND	5	0.50
TOLUENE	ND	ND	1000	0.50
1,2,4-TRICHLOROBENZENE	ND	ND	70	0.50
1,1,1-TRICHLOROETHANE	ND	ND	200	0.50
1,1,2-TRICHLOROETHANE	ND	ND	5	0.50
TRICHLOROETHENE	ND	ND	5	0.50
VINYL CHLORIDE	ND	ND	2	0.50
TOTAL XYLENES	ND	ND	10000	1.0
<u>UNREGULATED VOLATILE ORGANICS</u>				
BROMOBENZENE	ND	ND		0.50
BROMOCHLOROMETHANE	ND	ND		0.50
BROMOMETHANE	ND	ND		0.60
N-BUTYLBENZENE	ND	ND		0.50
SEC-BUTYLBENZENE	ND	ND		0.50
T-BUTYLBENZENE	ND	ND		0.60
CHLOROETHANE	ND	ND		0.50
CHLOROMETHANE	ND	ND		0.50
2-CHLOROTOLUENE	ND	ND		0.50
4-CHLOROTOLUENE	ND	ND		0.50
DIBROMOMETHANE	ND	ND		0.50
DICHLORODIFLUOROMETHANE	ND	ND		0.50
1,3-DICHLOROBENZENE	ND	ND		0.50
1,1-DICHLOROETHANE	ND	ND		0.50

**MIDCONTINENT**
TESTING LABORATORIESSec 14
New Vita Royal WellSAMPLE NAME: SAMPLE #2 / NYM KAAA
DESCRIPTION:
SAMPLE DATE: 01/20/03
SAMPLE TIME: 13:30 PM
SAMPLED BY: R. TAYLORLINDSAY McLEAN
VITA ROYAL PRODUCTS INC.
4267 S. STATE RD
DAVISON, MI 48423ACCOUNT NUMBER: 8766
LAB NUMBER: 20030120822
DATE RECEIVED: 01/20/03
TIME RECEIVED: 14:10 PM
REPORT DATE: 01/24/03

<u>PHYSICAL PROPERTIES</u>	<u>VALUE</u>	<u>METALS mg/l</u>	<u>DISSOLVED</u>	<u>TOTAL</u>
Conductivity, umhos/cm	696.	Aluminum	.	<.050
Hardness	80.8	Antimony	.	.
PH	8.18	Arsenic	.	<.005
Solids, Dissolved, mg/l	418.	Barium	.	0.021
Solids, Suspended, mg/l	.	Beryllium	.	<.001
Turbidity, NTU	.	Boron	.	.
		Cadmium	.	<.001
		Calcium	22.2	.
		Chromium	.	<.001
		Cobalt	.	.
		Copper	.	<.005
		Gold	.	.
		Iron	.	0.750
		Lead	.	0.001
		Lithium	.	.
		Magnesium	6.15	.
		Manganese	.	0.067
		Mercury	.	<.0002
		Molybdenum	.	.
		Nickel	.	.
		Potassium	4.57	.
		Selenium	.	<.005
		Silicon	.	.
		Silver	.	<.001
		Sodium	111.	.
		Strontium	.	<1.00
		Vanadium	.	.
		Zinc	.	<.050

<u>SPECIAL TESTS</u>	<u>VALUE</u>
HARDNESS-GRAINS	4.7

2381 South Plaza Drive
P.O. Box 3388
Rapid City, SD 57709
Ph 605/348-0111APPROVED BY: S. H. P. [Signature]DATE: Jan. 24, 2003

NEW Vita Royal Well
 Sec. 14 INTAN KANA


Hazen Research, Inc.

4801 Indiana Street
 Golden, CO 80403 USA
 Tel: (303) 279-4501
 Fax: (303) 278-1528

DATE March 6, 2003
 HRI PROJECT 002-BS4
 HRI SERIES NO. A347/03
 DATE REC'D 01/28/2003
 CUST. P.O.# None Rec'd

Vita Royal Products Inc.
 Lindsay McLean
 4267 S. State Road
 Davison, MI 48423

REPORT OF ANALYSIS

SAMPLE NO. A347/03-1

SAMPLE IDENTIFICATION: 20030120822 - Sample #2 - sampled on 01/20/2003 @ 1330

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radium-228 (+-Precision*), pCi/l (T)	1.9(+/-0.5)	0.1	SM 7500-Ra B	02/25/2003 @ 1743	MA/EDF
Radium-228 (+-Precision*), pCi/l (T)	0.7(+/-0.6)	0.5	EPA Ra-05	02/25/2003 @ 1330	EDF
Uranium, pCi/l (T)**	<1	1	ASTM D2907-91	02/03/2003 @ 2151	MRA
Uranium, ug/l (T)	<2	2	ASTM D2907-91	02/03/2003 @ 2151	MRA

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
 Certification ID's: CO/EPA - CO00008; CT - PH-0152; KY - 90076; KS - E-10285; NH - 232801-A;
 NY ELAP - 11417; PA DEP 68561; WI - 998376610

**Uranium results reported assuming the activity of natural U = 8.77×10^{-7} Ci/gm.

CODES:

(T) = Total (D) = Dissolved
 (S) = Suspended (R) = Total Recoverable
 (PD) = Potentially Dissolved
 < = Less Than

By:

Robert Roslad
 Robert Roslad
 Laboratory Manager