Western Water & Land, Inc.

May 22, 2013

Mr. Brandon Danforth
Environmental Specialist
WPX Energy Rocky Mountain LLC
1058 County Road 215
Parachute, Colorado 81635

RE: Baseline Water Quality Sampling Evaluation – RGU 43-23-198 Drill Pad

Dear Mr. Danforth,

Western Water & Land, Inc. (WWL) has completed a hydrologic water source evaluation for the WPX Energy Rocky Mountain LLC (WPX) RGU 43-23-198 Drill Pad in accordance with COGCC Rule 609. The evaluation considered all water sources as defined in Rule 609 within a 0.5-mile radius of the referenced drill pad. Water sources located on the basis of section quarters were included in the evaluation if the any portion of the section quarter(s) lies within the 0.5-mile radius area. A preliminary screening of the water sources was completed to identify the sources considered to be potentially available for sampling pending results of the owner questionnaire and field inspections to verify sampling feasibility and the consent of the structure owners. Each potentially available water source was then evaluated to identify the preferred sources for the baseline program. If the resulting number of potentially available sources was four or less, all of the sources were included in the list of preferred sources. If more than four sources were potentially available, the sources were prioritized based on WWL's hydrologic knowledge of the region, general hydrologic rationale, and in accordance with the guidelines specified in Rule 609.

Water Sources

Water sources as defined in Rule 609 include water wells registered with the Colorado Division of Water Resources (DWR), permitted or adjudicated springs, and monitoring wells installed for baseline sampling and monitoring under COGCC Rules 318A.e(4), 608, or 609. Water sources located within a 0.5-mile radius of the RGU 43-23-198 Drill Pad are shown in Figure 1. Well permit files are included for all wells located within the 0.5-mile radius evaluation area in Attachment A. Structure owners are identified as reported in DWR databases. Property owners are identified as reported in county property records. The water sources within a 0.5-mile radius of the drill pad are summarized as follows:

- MMC-IRI-4 (well constructed)
  - Well Permit Applicant/Owner:
    Natural Soda, Inc.
    3200 County Road 31
    Rifle, Colorado 81650
  - Land Owner:
    Bureau of Land Management

743 Horizon Court Suite 330, Grand Junction, CO 81506
Phone: (970) 242-0170 Fax: (970) 242-0270

220 Market Street
Meeker, Colorado 81641
- Uses: Monitoring
- Location Accuracy: Spotted from section lines

- MMC-IRI-5 (well constructed)
  - Well Permit Applicant/Owner:
    Natural Soda, Inc.
    3200 County Road 31
    Rifle, Colorado 81650
  - Land Owner:
    Bureau of Land Management
    220 Market Street
    Meeker, Colorado 81641
  - Uses: Monitoring
  - Location Accuracy: Spotted from section lines

- MMC-IRI-6 (well constructed)
  - Well Permit Applicant/Owner:
    Natural Soda, Inc.
    3200 County Road 31
    Rifle, Colorado 81650
  - Land Owner:
    Bureau of Land Management
    220 Market Street
    Meeker, Colorado 81641
  - Uses: Monitoring
  - Location Accuracy: Spotted from section lines

- MMC-IRI-7 (well constructed)
  - Well Permit Applicant/Owner:
    Natural Soda, Inc.
    3200 County Road 31
    Rifle, Colorado 81650
  - Land Owner:
    Bureau of Land Management
    220 Market Street
    Meeker, Colorado 81641
  - Uses: Monitoring
  - Location Accuracy: Spotted from section lines

- Water Well (Permit No.16412-MH; notice of intent to construct monitoring holes (NOI) submitted June 13, 1990; no evidence that wells were completed or permits were issued)
  - NOI Applicant/Owner:
    NaTec Minerals, Inc.
    3505 County Road 83
    Rifle, Colorado 81650
  - Land Owner:
    Bureau of Land Management
    220 Market Street
    Meeker, Colorado 81641

  - Uses: Monitoring
  - Location Accuracy: Spotted from quarters

- Water Well (Permit No.11703; Application Denied)

Potentially Available Water Sources

Each water source identified within the 0.5-mile radius area is considered to be a potentially available water source unless existing information suggests that the water source would not be suitable for the baseline water quality program. The following water sources are considered potentially available for inclusion in the program:

- MMC-IRI-4 (well constructed)
- MMC-IRI-5 (well constructed)
- MMC-IRI-6 (well constructed)
- MMC-IRI-7 (well constructed)

The water source excluded from the list of potentially available water sources were wells for which the well permit was either canceled or expired or there is no evidence that the well was actually installed.

Preferred Water Sources

In accordance with Rule 609, all available water sources within a 0.5-mile radius of the drill pad, up to a maximum of four sources must be included in the baseline and subsequent monitoring program. Because only four potentially available water sources are located within 0.5 miles of the RGU 43-23-198 Drill Pad, all four of the sources are considered to be preferred water sources. The preferred potentially available water sources are as follows:

- MMC-IRI-4 (well constructed)
- MMC-IRI-5 (well constructed)
- MMC-IRI-6 (well constructed)
- MMC-IRI-7 (well constructed)

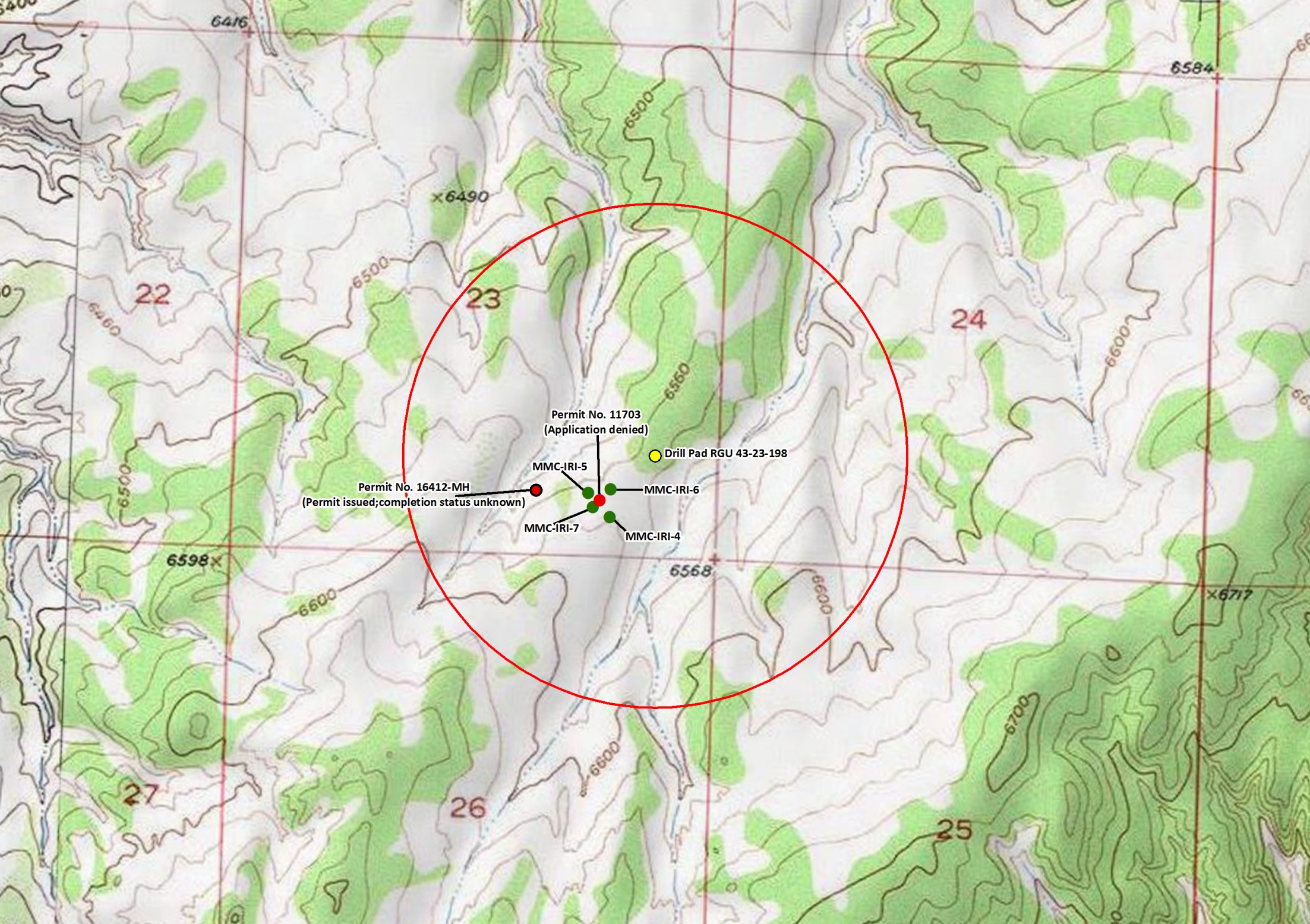
The preferred water sources will be incorporated into the baseline water quality monitoring program provided the structures exist, and the structure owner, or land owner if the structure owner is not known, grants approval to sample the source and inspection of the structure confirms that a representative sample can be obtained from the structure.

If you have any questions or concerns, please contact me at (970) 242-0170.

Sincerely,

Bruce D. Smith
Principal Hydrogeologist
WESTERN WATER & LAND, INC.

Attachments


Permit No. 11703
(Application denied)
Drill Pad RGU 43-23-198
MMC-IRI-5
MMC-IRI-6
Permit No. 16412-MH
(Permit issued;completion status unknown)
MMC-IRI-7
MMC-IRI-4
22
23
24
27
26
25
6416
6584
6490
6500
6460
6560
6600
6598
6568
6717
6700

Attachment A

Water Source Records

FORM NO. GW9-11 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 28 '92
WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP / ADDRESS

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. CURRENT OWNER

NAME(S) White River Nahcolite Minerals Ltd. Liability Co
Mailing Address 3505 Co. Road 83, P.O. Drawer 72
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

[X] WELL PERMIT NUMBER 040206-M

[ ] LIVESTOCK WATER TANK NUMBER _____

[ ] EROSION CONTROL DAM NUMBER _____

3. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-4

(Address) (City) (State) (Zip)

SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 [ ] N. or [X] S., Range 98 [ ] E. or [X] W. 6 P.M.

Distances from Section Lines 410 Ft. from [ ] N. or [X] S. Line, 1120 Ft. from [X] E. or [ ] W. Line.

Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____

_____ 1/4, Sec. _____ Twp. _____ [ ] N. or [ ] S., Range _____ [ ] E. or [ ] W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.
The existing record is being amended for the following reason(s):

[X] Change in name of owner. [ ] Change in mailing address.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger Day	10/21/92

FOR OFFICE USE ONLY

ACCEPTED FOR A CHANGE IN OWNERSHIP ONLY.

Hal D. Simpson — State Engineer
Norman L. Hill — By
12-9-1992 — Date

Court Case No. _____ Div. 6 Co. 52 WD 43 Basin _____ MD _____ Use O M

FORM NO. GWS-10 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 30 '92
WATER RESOURCES
STATE ENGINEER
COLO.

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 040206 M

1. WELL OWNER
NAME(S) NaTec Minerals, Inc.
Mailing Address 3200 Co. Road 31, P.O. Drawer 72
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-4
(Address) (City) (State) (Zip)
SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 ☐ N. or ☒ S., Range 98 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines 410 Ft. from ☐ N. or ☒ S. Line, 1120 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): monitoring and observation, including monitoring water levels and water quality sampling

4. Water from the well was first used beneficially for the above purpose(s) on November 8 1991

5. The pumping rate claimed is 15 gallons per minute.

6. The average annual amount of water diverted is less than 1 acre feet.

7. The land area irrigated (watered) by water from this well is: N/A (Number) ☐ Acres or ☐ Square feet,
described as: (Legal Description)
or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Existing Well Lic. No:
Pump installed by: NaTec Lic. No:

9. Meter Mfg. by Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger Day	10/22/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19,1992, monitoring and observation well use is an exempt use pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

State Engineer By Date

Court Case No. Div. Co. WD Basin MD Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

The Statement must be typewritten or printed in BLACK INK. Initial and date any changes you make on the form. INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.
NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.

Item Number

1. Print the well owner's name and include the mailing address and phone number.

2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.

3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.

4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.

5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.

6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.

7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.

8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.

9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.

10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
209 ARIX BUILDING
800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

W.JR-26-77

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HEREON. TYPE OR PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 040206 M

RECEIVED
OCT 30 '92
WATER RESOURCES
STATE ENGINEER
COLO.

WELL OWNER NaTec Minerals, Inc.

ADDRESS 3200 Co. Rd. 31, P.O. Drawer 72

DATE COMPLETED November 8, , 19 91

SE ¼ of the SE ¼ of Sec. 23 ,

T. 1 S , R. 98 W , 6 P.M.

HOLE DIAMETER see attached diagram

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

DRILLING METHOD _____

CASING RECORD: see attached diagram

Plain Casing

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD see attached diagram

Material _____

Intervals _____

Placement Method _____

GRAVEL PACK: Size _____

Interval _____

TEST DATA

Date Tested _____ , 19 ___

Static Water Level Prior to Test _____ ft.

Type of Test Pump _____

Length of Test _____

Sustained Yield (Metered) _____

Final Pumping Water Level _____

WELL LOG

From	To	Type and Color of Material	Water Loc.

TOTAL DEPTH _____

Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make TIMCO

Type Low Volume Gas Lift

Powered by Compressed Nitrogen HP N/A

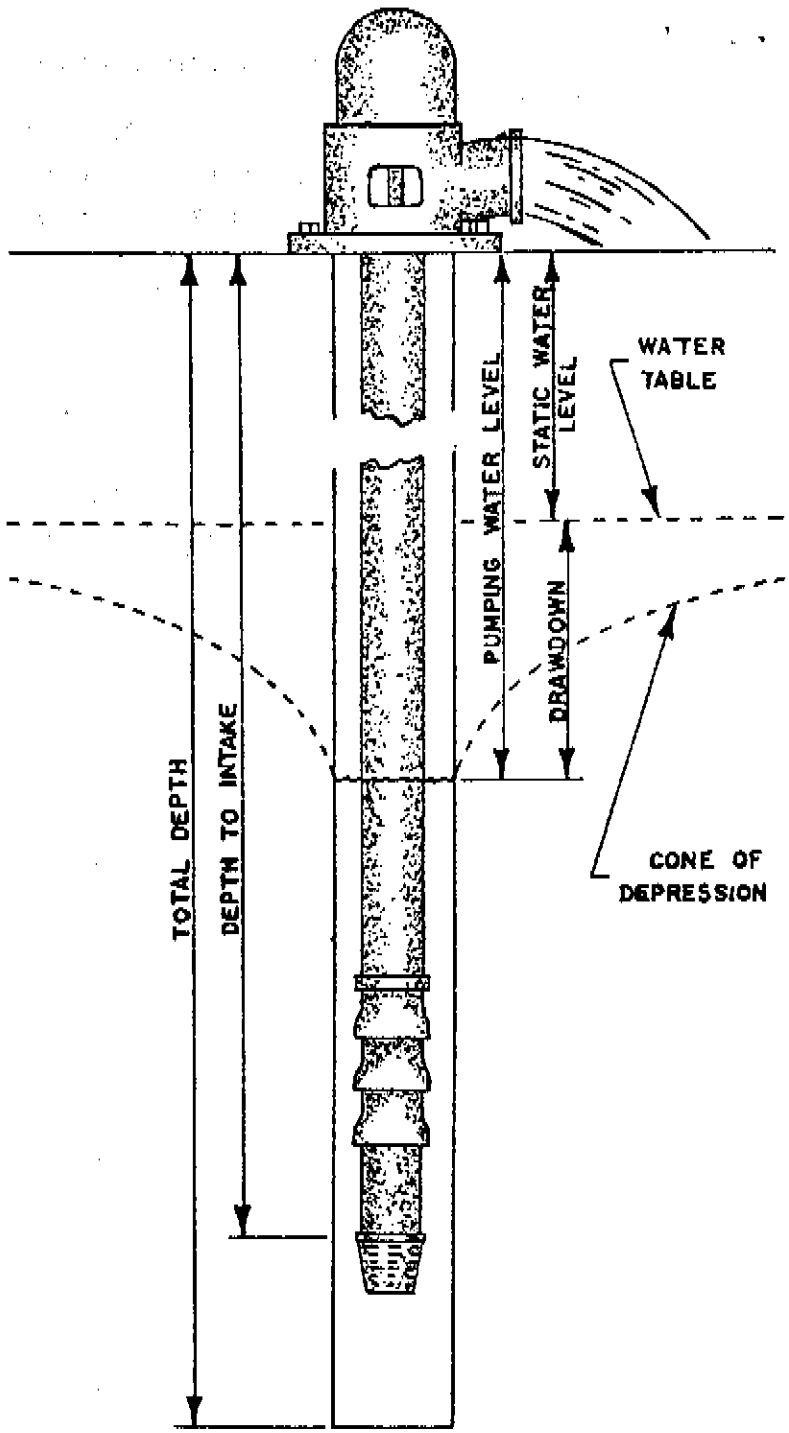
Pump Serial No. None

Motor Serial No. None

Date Installed September, 1990

Pump Intake Depth 1366'

Remarks See attached drawings for original and 1991 recompletion.



WELL TEST DATA WITH PERMANENT PUMP

Date Tested N/A

Static Water Level Prior to Test _____

Length of Test _____ Hours

Sustained yield (Metered) _____ GPM

Pumping Water Level _____

Remarks Sampled monthly, see annual report for depth, and quality.

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Roger Day License No.

State of Colorado, County of Rio Blanco SS

Subscribed and sworn to before me this 22nd day of October, 1992.

My Commission expires: 6/21, 1994.

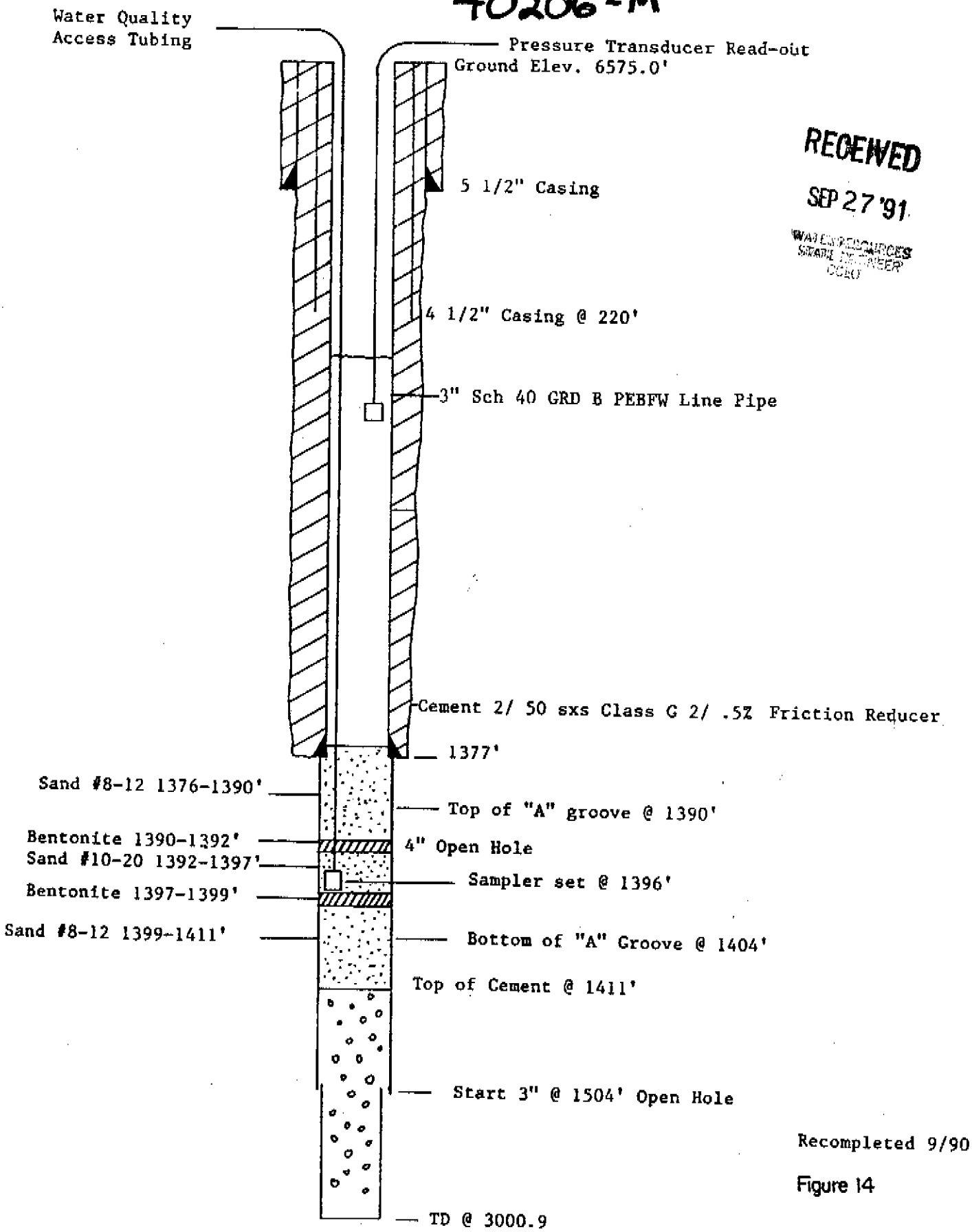
Notary Public Judith K. Justice

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

MMC IRI-4

Down Dip A-Groove Monitoring Well

40206-M



Recompleted 9/90

Figure 14

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

WELL PERMIT NUMBER 040206 . M .

DIV. 6 CNTY. 52 WD 43 DES. BASIN ___ MD ___

Lot: Block: Filing: Subdiv:

APPLICANT

NATEC MINERALS INC
3505 CO RD 83 P O 72
RIFLE, CO 81650

(303) 878-3674

APPROVED WELL LOCATION

COUNTY RIO BLANCO

SE 1/4 SE 1/4 Section 23

Twp 1 S , Range 98 W 6th P.M.

DISTANCES FROM SECTION LINES

410 Ft. from South Section Line

1120 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL MMC-IRI-4 (MH-16412)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.

3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.

4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.

5) Records of water level measurements and water quality analyses shall be maintained by the well owner in accordance with the decree entered by the Division 5 Water Court in Case No. 88CW420 and submitted to the Division of Water Resources annually.

6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.

7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.

8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.

9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.

10) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED: FML

State Engineer

By

Receipt No. 0330744E

DATE ISSUED NOV 08 1991

EXPIRATION DATE NOV 08 1992

WRJ-5-Rev. 76

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

PERMIT APPLICATION FORM

40206-M RECEIVED

SEP 27 '91

WATER RESOURCES STATE ENGINEER COLO.

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

FOR:
( ) A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
(X) A PERMIT TO INSTALL A PUMP

( ) REPLACEMENT FOR NO. _____
(X) OTHER monitoring and observation
WATER COURT CASE NO. 88CW420

(1) APPLICANT - mailing address

NAME NaTec Minerals, Inc.

STREET 3505 Co. Rd. 83, P.O. Drawer 72

CITY Rifle Colorado (State) 81650 (Zip)

TELEPHONE NO. (303) 878-3674

(2) LOCATION OF PROPOSED WELL

County Rio Blanco

SE ¼ of the SE ¼, Section 23

Twp. 1 S (N,S), Rng. 98 W (E,W), 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15 gpm

Average annual amount of ground water to be appropriated (acre-feet): less than 1 acre-foot

Number of acres to be irrigated: N/A

Proposed total depth (feet): 1397

Aquifer ground water is to be obtained from:

A-Groove Aquifer

Owner's well designation MMC-IRI-4

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
( ) DOMESTIC (1)
( ) LIVESTOCK (2)
( ) COMMERCIAL (4)
( ) INDUSTRIAL (5)
( ) IRRIGATION (6)
( ) MUNICIPAL (8)
(X) OTHER (9) monitoring and observation

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Licensed

Street _____

City _____ (State) (Zip)

Telephone No. _____ Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 330744 E

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

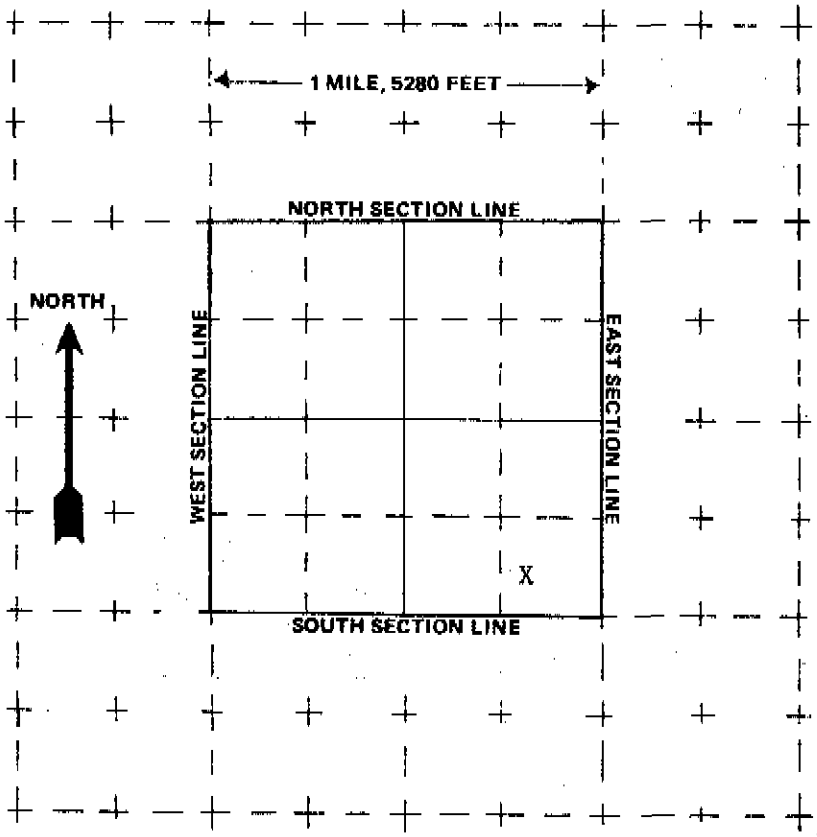
EXPIRATION DATE _____

_____ (STATE ENGINEER)

BY _____

I.D. 6 COUNTY 52 - 43

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

410 ft. from South (north or south) sec. line

1120 ft. from East (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: USA

No. of acres 8224. Will this be the only well on this tract? no

(8) PROPOSED CASING PROGRAM

Plain Casing SEE ATTACHED EXHIBIT

3 in. from surface ft. to 1377 ft.

_____ in. from _____ ft. to _____ ft.

~~Perforated casing~~ Open Hole

4 in. from 1377 ft. to 1397 ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) DETAILED DESCRIPTION of the use of ground water: **Household use and domestic wells must indicate type of disposal system to be used.** N/A

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
See decree in	Case No. 88CW420	

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

NaTec Minerals, Inc.

SIGNATURE OF APPLICANT(S)

Roger L. Day
Manager Mine Development

Use additional sheets of paper if more space is required.

ROY ROMER
Governor

JERIS A. DANIELSON
State Engineer

SJ

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

June 18, 1990

Roger L. Day
Natec Minerals, Inc.
201 W. Third St., P.O. Drawer 72
Rifle, CO 81650

Lic. No. _____
I.D. 6 43 County 52
Basin _____ M.D. _____

RE: Monitoring and Observation Holes

File No. MH-[redacted]16412-MH SW1/4 SE1/4 Section 23
Owner: Natec [redacted], Inc. Township 1S Range 98W

Dear Mr. Day:

Thank you for your letter of June 13, 1990, notifying this office of your intent to construct the subject monitoring and observation holes. The construction of the holes must be completed within 3 months of the date of this acknowledgment. Testing and/or pumping shall not exceed a total of seven (7) days unless prior written approval is obtained from the State Engineer. The water diverted during testing shall not be used for beneficial purposes. The well owner or his agent shall be responsible for obtaining permits and complying with all rules and regulations pertaining to the discharge of all fluids produced during testing. The holes must be plugged within one (1) year after construction unless a well permit has been obtained from the State Engineer.

A copy of this acknowledgment should accompany the drilling rig. Copies of all logs and test data must be submitted to this office within sixty (60) days of the completion of the work. Please refer to the above file number and owner to identify the documents when submitted. Upon completion of plugging, an affidavit (form GWS-6) should be submitted affirming the date the holes were plugged, the intervals and types of materials used, and by whom the holes were plugged.

Acknowledgment of this monitoring and observation hole notice does not indicate that well permits can be approved. If you have any questions, contact this office.

Sincerely,

Fred M. Loo
Water Resources Geologist
Ground Water Section

FML:cq
cc: Division 6 (with enclosure)

1362I/Form # 0838(Q)

NaTec

RECEIVED

JUN 15 '90

WATER RESOURCES
STATE ENGINEER
DIV.

June 13, 1990

Dr. Jeris Danielson
State Engineer
Division of Water Resources
1313 Sherman Street - Room 818
Denver, Colorado 80203

Re: NaTec Minerals, Inc.
Monitoring and Observation Holes:
NaTec 26-90-2, NaTec 26-90-3, NaTec 26-90-4
MMC-IRI-1, MMC-IRI-4, MMC-IRI-6, MMC-IRI-7,
MMC-IRI-8

Dear Dr. Danielson:

Pursuant to the Waterwell Construction and Pump Installation Rules, 2 CCR 402-2, NaTec Mineral, Inc. hereby provides notice of its intent to construct monitoring and observation holes. NaTec wells 26-90-2, 26-90-3, and 26-90-4 will be new completions, whereas MMC-IRI-1, 4, 6, 7, 8 are wells which will be converted to monitoring wells. NaTec wells 26-90-2, 3, 4 and MMC-IRI-1 will be located on the same drill pad, south of NaTec's planned solution mine, with completions in four separate aquifers of interest. Wells MMC-IRI-4, 6, 7 and 8 are located north of mine site in four separate aquifers. In accordance with Rule 6.3, the following information is provided to you:

Landowner's Name: United States of America

Well Owner's Name: NaTec Minerals, Inc.

Approximate Date of Construction: June 18 - August 15, 1990

Location: NaTec 26-90-2, NaTec 26-90-3, NaTec 26-90-4 and MMC-IRI-1 will be located in the SE1/4 of the SW1/4, Section 26, Twp. 1 S, Range 98 W., 6th P.M at a point approximately 5224 feet from the North section line and approximately 3491 feet from the East section line. Wells MMC-IRI-4, 6, 7 and 8 are located in the SW1/4 of the SE1/4, Section 23, Twp. 1 S., Range 98 W., 6th P.M. at a point approximately 1380 feet from the East section line and approximately 650 feet from the South section line.

NaTec Minerals, Inc.
201 West Third Street
P.O. Drawer 72
Rifle, Colorado 81650
303 625-1544
Fax 303 625-3036

Number and Type of Holes to be Constructed: Three wells will be constructed and five wells recompleted for monitoring and observation. All constructed wells will utilize plain casing seven inches in diameter from the surface to fifty feet. The construction of the wells will be as follows:

NaTec 26-90-2 Run 4 1/2" diameter plain casing from the surface to 1373 feet, with open 3 7/8" hole from 1373 to 1393 to monitor the A-groove aquifer of the Green River Formation.

NaTec 26-90-3 run 4 1/2" diameter plain casing from the surface to 1852 feet, with open 3 7/8" hole, twenty feet in length (depending on maximum flows during drilling) from 1852 to 1892 to monitor the dissolution surface aquifer.

NaTec 26-90-4 Run 4 1/2" diameter plain casing from the surface to 350 feet, with open 3 7/8" hole, twenty feet in length (depending on maximum flows during drilling) from 350 to 400 to monitor the perched aquifer.

See attached figures for current well completion status. MMC-IRI-1, 4, 6, 7, and 8 will be recompleted by removing existing tubing and running 4 1/2" casing to sample interval and cement exterior to surface. In MMC-IRI-8 the 7" casing will be cemented to surface in the annulus before the 4 1/2" casing is cemented externally to the surface. All recompletions will then be drilled for twenty feet with 3 7/8 bit to provide sample interval as follows:

MMC-IRI-1	1564 - 1584 foot interval
MMC-IRI-4	370 - 390 foot interval
MMC-IRI-6	1375 - 1395 foot interval
MMC-IRI-7	1540 - 1560 foot interval
MMC-IRI-8	1860 - 1880 foot interval

All eight wells will be equipped with a nitrogen gas lift pump installed with course sand in the open interval for water quality sampling. A pressure transducer will be utilized for water level monitoring.

Estimated Total Depth: NaTec 26-90-2 (1393'), NaTec 26-90-3 (1892'), NaTec 26-90-4 (400'), MMC-IRI-1 (1584'), MMC-IRI-4 (390'), MMC-IRI-6 (1395'), MMC-IRI-7 (1560'), MMC-IRI-8 (1880').

Purpose: Monitoring and Observation

Please be advised that air lifting or pumping small quantities of water (less than five gallons) is required once a month. Infrequent purging of larger volumes of water may also be performed.

If you have any comments or questions regarding this notice, please contact me or Ed Baker at the following address and telephone number:

Roger L. Day, Manager Mine Development
NaTec Minerals, Inc.
P.O. Drawer 72
201 West Third Street, Suite 101
Rifle, CO 81650
(303) 625-1544
Fax (303) 625-3036

We appreciate your assistance in this matter.

Sincerely,

Roger Day

Roger L. Day
Manager Mine Development

Attachments

MMC-8

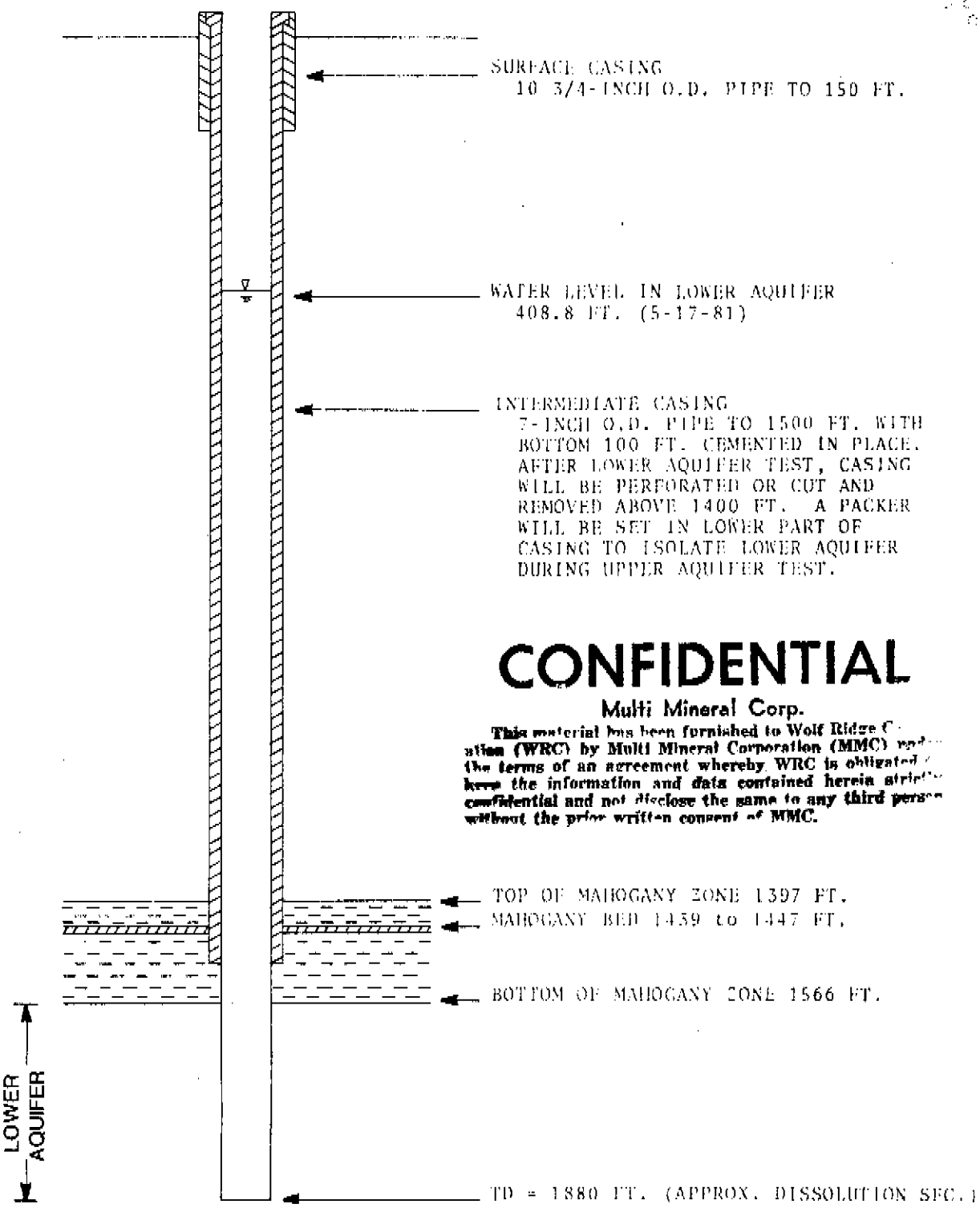


FIGURE - SCHEMATIC SHOWING COMPLETION OF MMC-8 AS A PUMP WELL FOR UPPER AND LOWER AQUIFER TESTING.

JLL

MMC-7

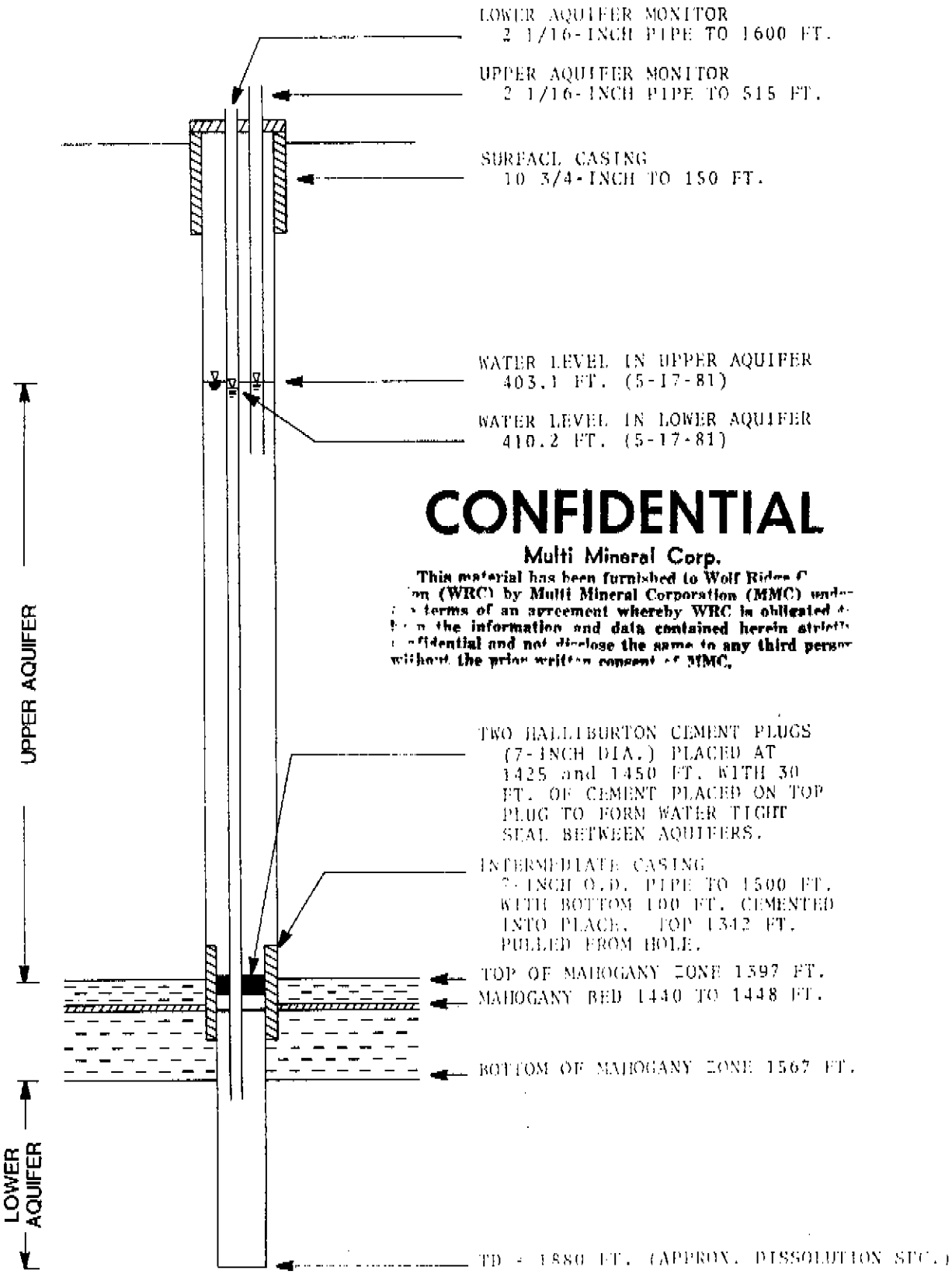


FIGURE - SCHEMATIC SHOWING COMPLETION OF MMC-7 AS AN OBSERVATION WELL FOR GROUND -WATER MONITORING.

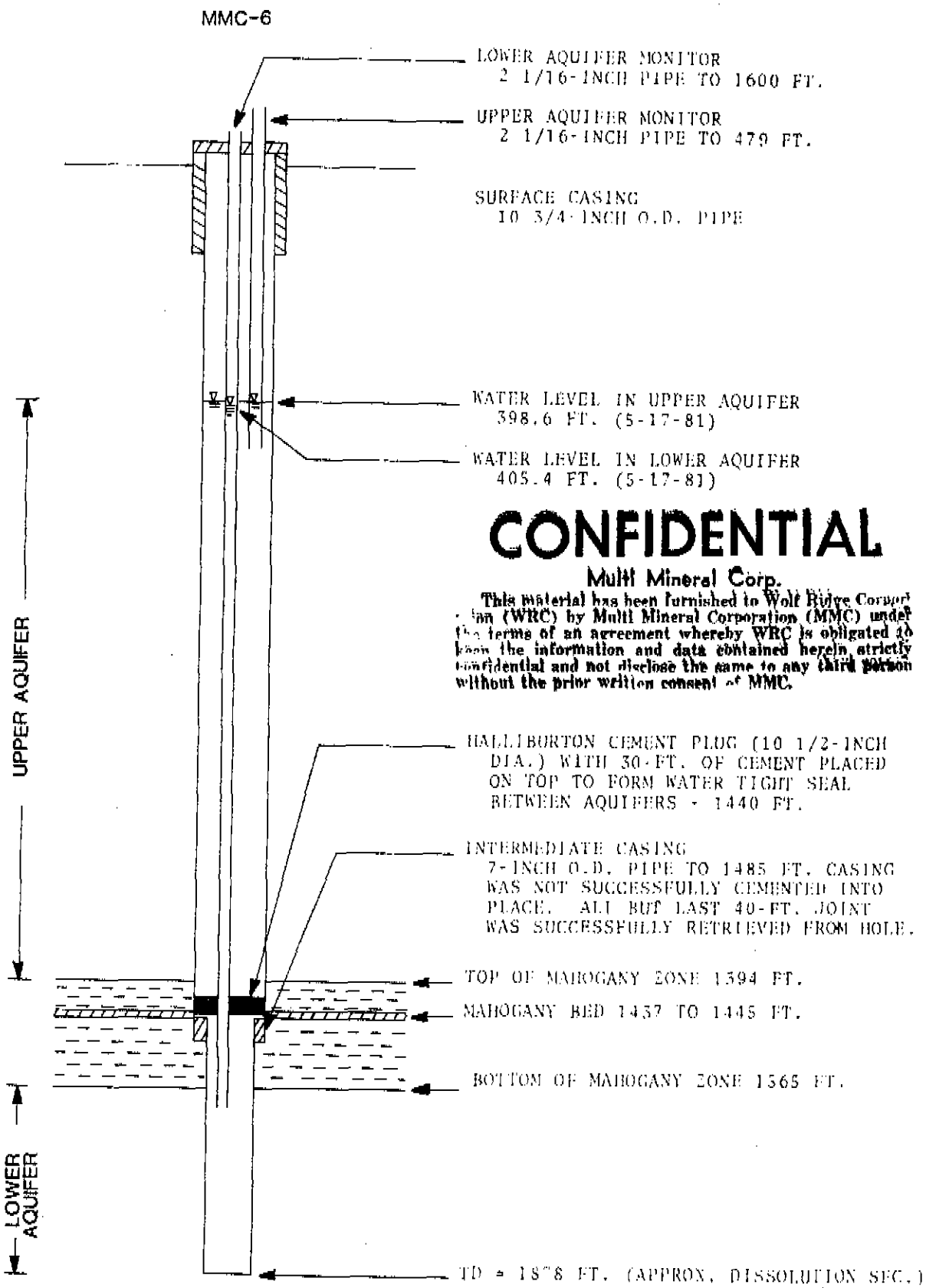


FIGURE - SCHEMATIC SHOWING COMPLETION OF MMC-6 AS AN OBSERVATION WELL FOR GROUND-WATER MONITORING.

JLL

MMC-4

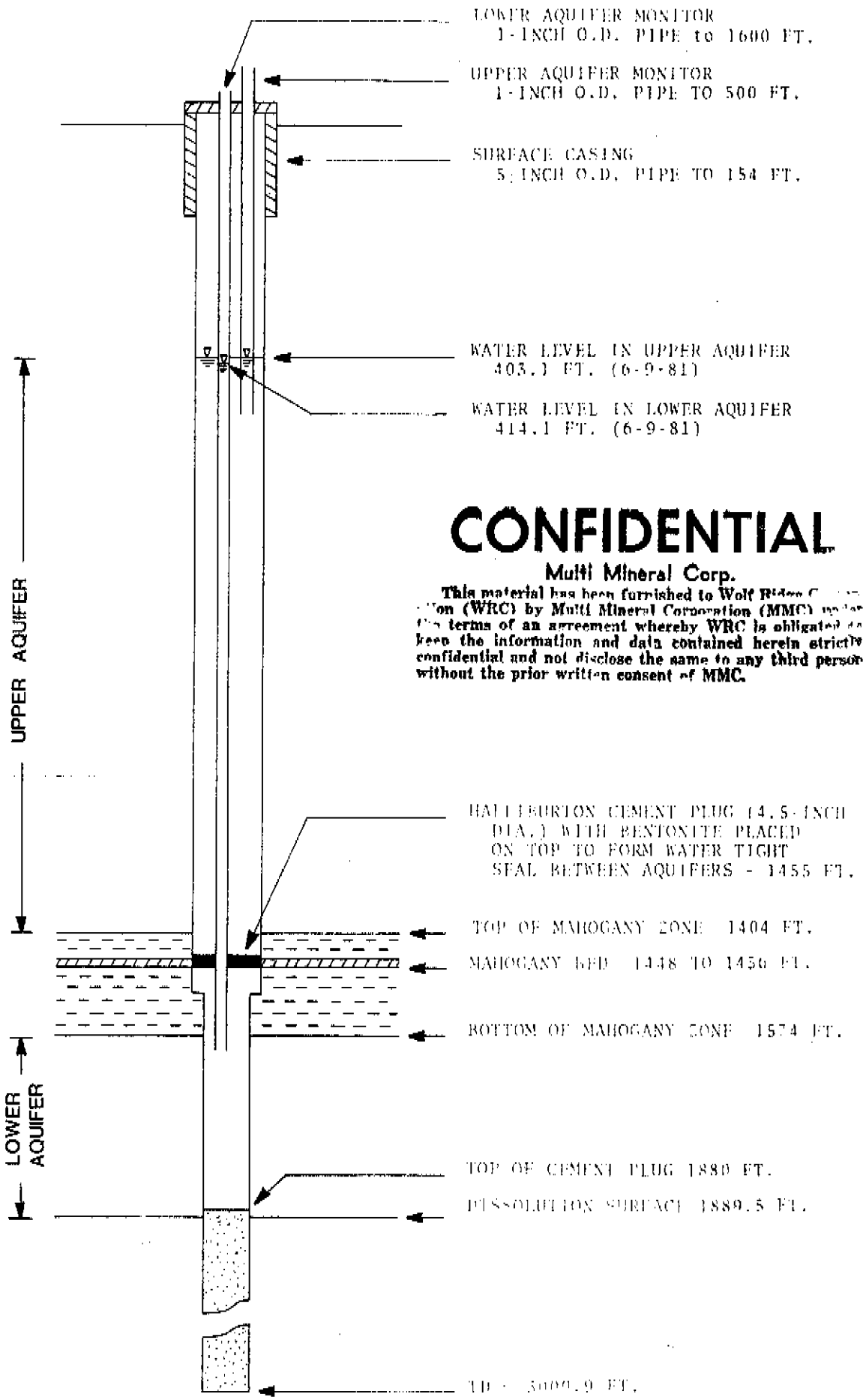


FIGURE - SCHEMATIC SHOWING COMPLETION OF MMC-4 AS AN OBSERVATION WELL FOR GROUND-WATER MONITORING.

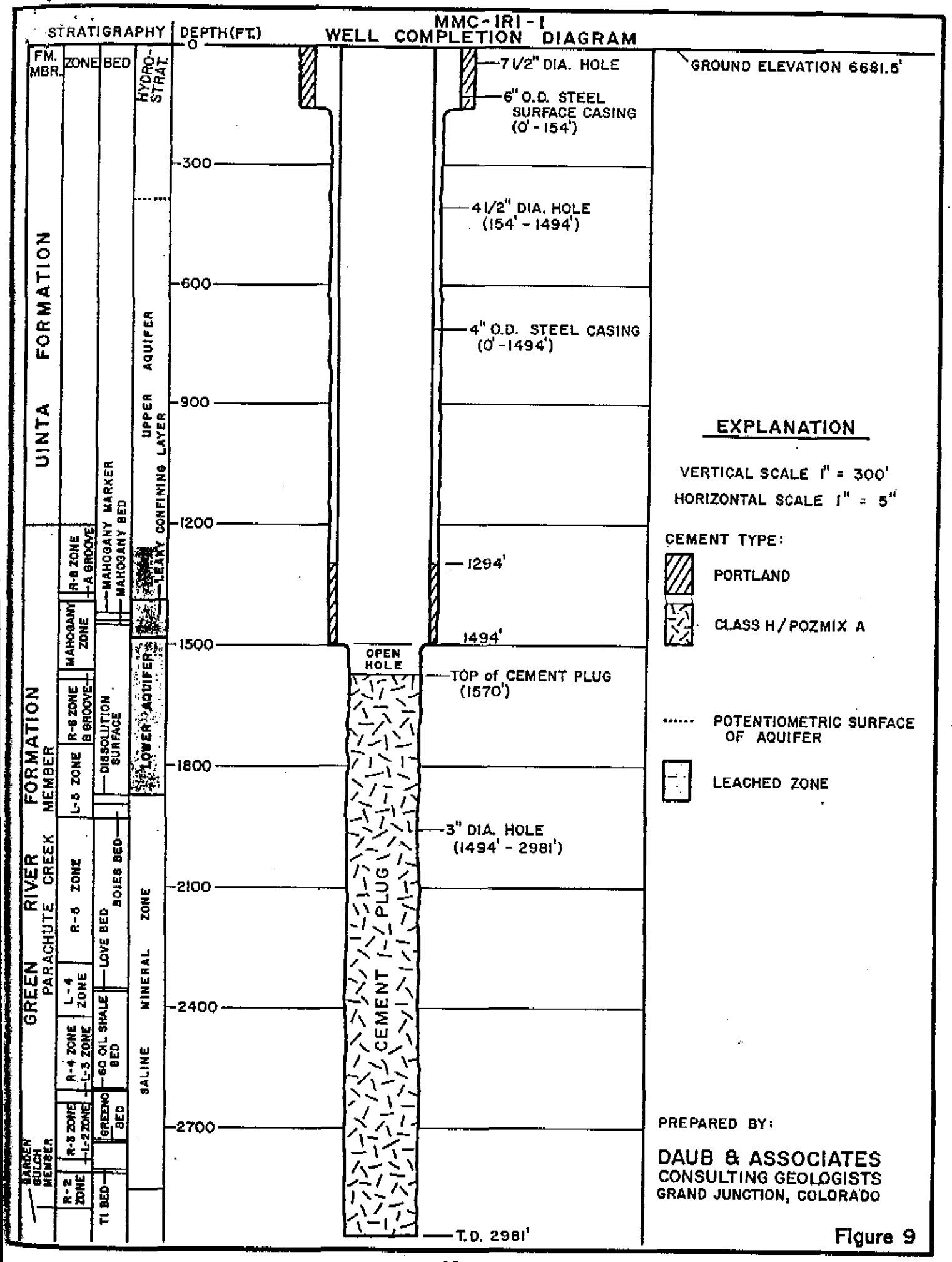

MMC-IRI-1
WELL COMPLETION DIAGRAM
STRATIGRAPHY
DEPTH (FT.)
FM. MBR.
ZONE
BED
HYDRO-STRAT.
UINTA FORMATION
GREEN RIVER FORMATION
PARACHUTE CREEK MEMBER
BARDEN GULCH MEMBER
R-8 ZONE
A GROOVE
MAHOGANY ZONE
R-8 ZONE
B GROOVE
L-5 ZONE
R-5 ZONE
L-4 ZONE
R-4 ZONE
L-3 ZONE
R-3 ZONE
L-2 ZONE
R-2 ZONE
MAHOGANY MARKER
MAHOGANY BED
DISSOLUTION SURFACE
LOVE BED
BOIES BED
60 OIL SHALE BED
GREENO BED
T1 BED
UPPER AQUIFER
LEAKY CONFINING LAYER
LOWER AQUIFER
MINERAL ZONE
SALINE ZONE
0
300
600
900
1200
1500
1800
2100
2400
2700
7 1/2" DIA. HOLE
6" O.D. STEEL SURFACE CASING (0'-154')
4 1/2" DIA. HOLE (154'-1494')
4" O.D. STEEL CASING (0'-1494')
1294'
1494'
OPEN HOLE
TOP of CEMENT PLUG (1570')
3" DIA. HOLE (1494'-2981')
CEMENT PLUG
T.D. 2981'
GROUND ELEVATION 6681.5'
EXPLANATION
VERTICAL SCALE 1" = 300'
HORIZONTAL SCALE 1" = 5"
CEMENT TYPE:
PORTLAND
CLASS H/POZMIX A
POTENTIOMETRIC SURFACE OF AQUIFER
LEACHED ZONE
PREPARED BY:
DAUB & ASSOCIATES
CONSULTING GEOLOGISTS
GRAND JUNCTION, COLORADO

Figure 9

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

167607 LIC

WELL PERMIT NUMBER 167607 - ____ - __

DIV. 6 CNTY. 52 WD 43 DES. BASIN MD

Lot: Block: Filing: Subdiv:

APPLICANT

NATEC MINERALS INC
P O DRAWER 72
3200 CO RD 31
RIFLE CO 81650

(303)878-3674

APPROVED WELL LOCATION
RIO BLANCO COUNTY

SW 1/4 SE 1/4 Section 23
Twp 1 S RANGE 98 W 6th P.M.

DISTANCES FROM SECTION LINES
655 Ft. from South Section Line
1355 Ft. from East Section Line

PERMIT TO CONSTRUCT PERCHED AQUIFER MONITORING WELL MMC-IRI-5

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.

3) Approved pursuant to CRS 37-92-602(3)(b)(1) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.

4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.

5) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.

6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.

7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.

8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.

9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.

10) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED
FML

Hal D. Simpson
State Engineer

By

Receipt No. 0345764 DATE ISSUED DEC 02 1992 EXPIRATION DATE DEC 02 1994

41C

WRJ-5-Rev. 76

COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

RECEIVED
OCT 30 '92
WATER RESOURCES
STATE ENGINEER
COLO.

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

FOR: ( ) A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
(X) A PERMIT TO INSTALL A PUMP

( ) REPLACEMENT FOR NO. _____
(X) OTHER monitoring and observation
WATER COURT CASE NO. 88CW420

167607

(1) APPLICANT - mailing address

NAME NaTec Minerals, Inc.
STREET 3200 County Rd. 31, P.O. Drawer 72
CITY Rifle, CO (State) 81650 (Zip)
TELEPHONE NO. (303) 878-3674

(2) LOCATION OF PROPOSED WELL

County Rio Blanco
SW ¼ of the SE ¼, Section 23
Twp. 1 S (N,S), Rng. 98 W (E,W), 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15 gpm
Average annual amount of ground water to be appropriated (acre-feet): less than 1 Af
Number of acres to be irrigated: N/A
Proposed total depth (feet): 2983
Aquifer ground water is to be obtained from:
Perched
Owner's well designation MMC-IRI-5

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
( ) DOMESTIC (1)
( ) LIVESTOCK (2)
( ) COMMERCIAL (4)
( ) INDUSTRIAL (5)
( ) IRRIGATION (6)
( ) MUNICIPAL (8)
(X) OTHER (9) monitoring and observation
DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Blu-H Well Service
Street 2800 E. Main
City Rangley, CO (State) 81648 (Zip)
Telephone No. (303) 675-2885 Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 345764 / _____
Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

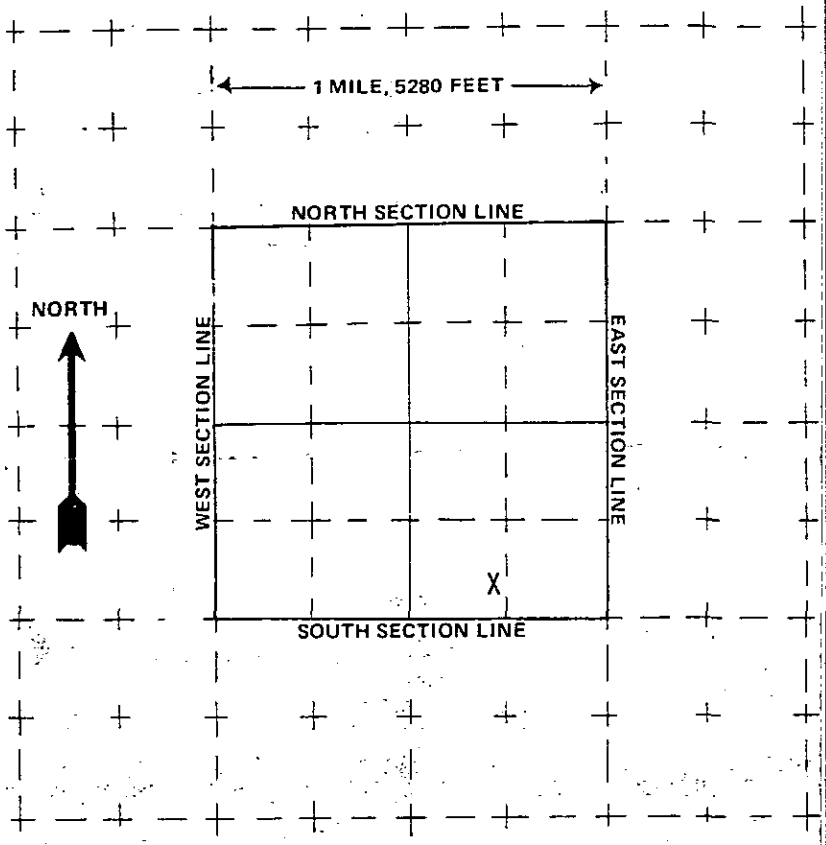
APPLICATION APPROVED

PERMIT NUMBER _____
DATE ISSUED _____
EXPIRATION DATE _____

_____
(STATE ENGINEER)

BY _____
I.D. 6 COUNTY 52-43

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)
An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

655 ft. from south (north or south) sec. line

1355 ft. from east (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: USA

No. of acres _____. Will this be the only well on this tract? _____

(8) PROPOSED CASING PROGRAM

Plain Casing see attatched exhibit

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) DETAILED DESCRIPTION of the use of ground water: **Household use and domestic wells must indicate type of disposal system to be used.** N/A

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
See decree in Case No.	88CW420	

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

Natec Minerals, Inc.

Roger L Day

SIGNATURE OF APPLICANT(S)

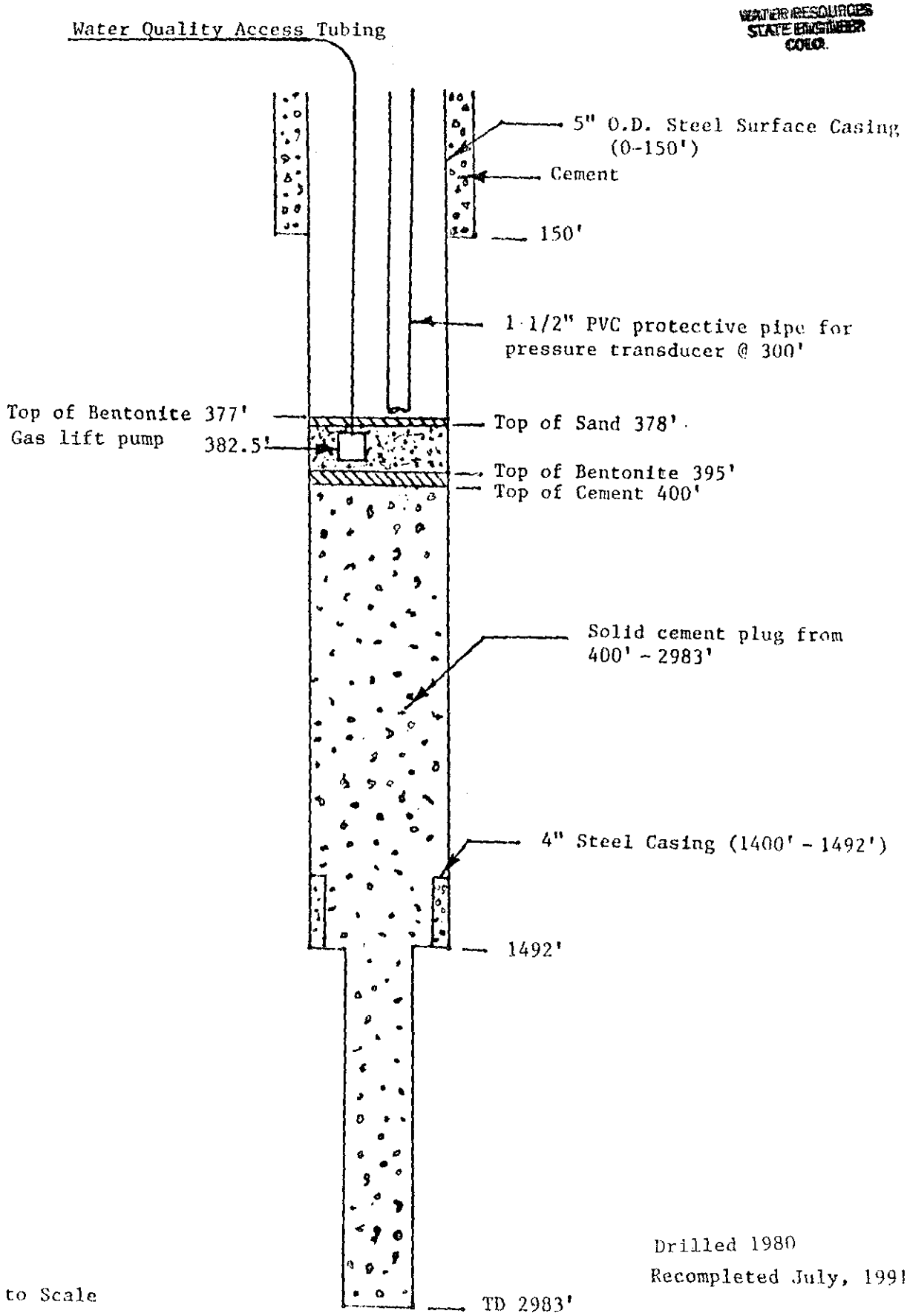
Roger L. Day
Manager Mine Development

Use additional sheets of paper if more space is required.

IRI-5

RECOMPLETED 8/15/91

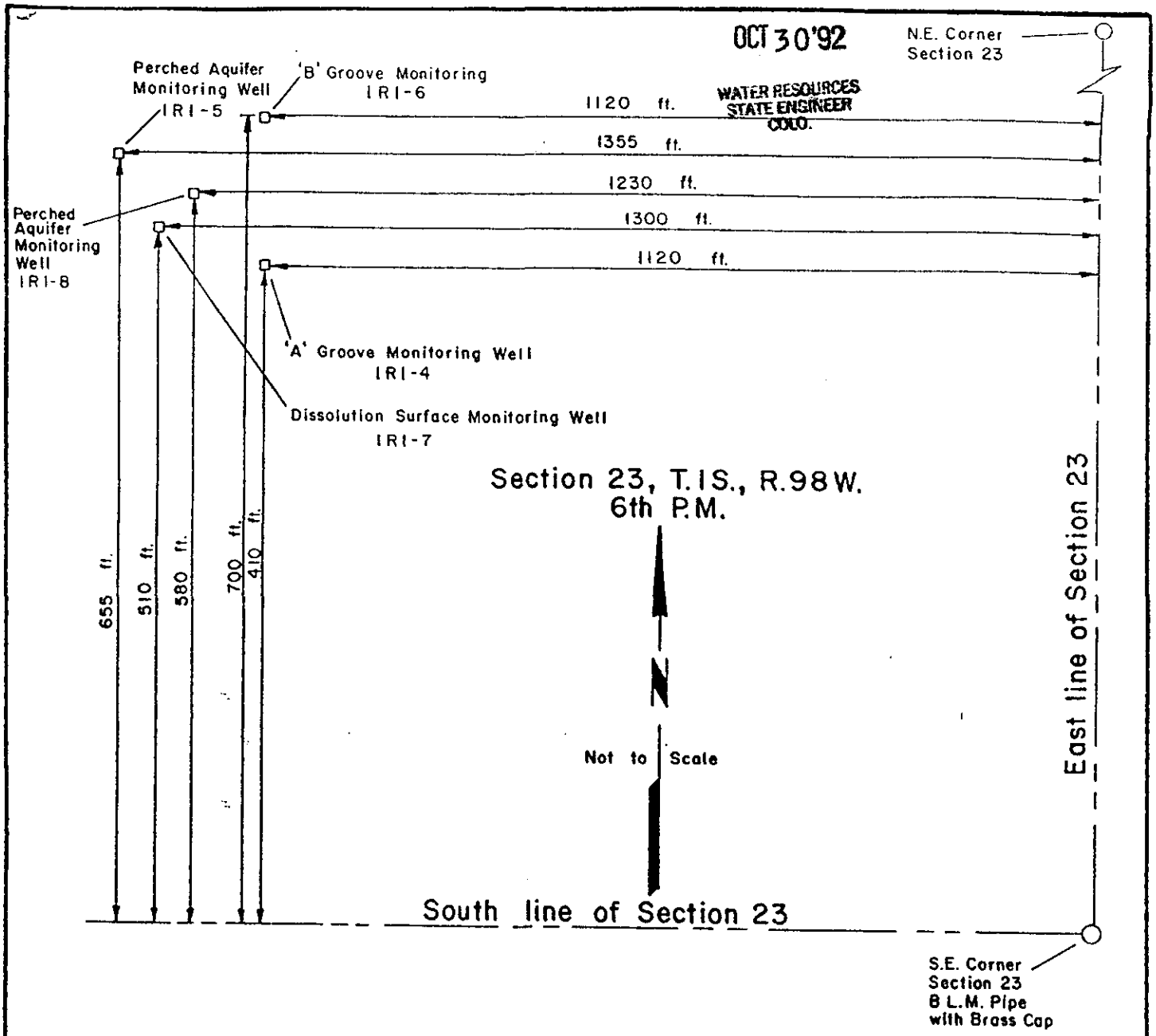
PERCHED AQUIFER MONITORING WELL



Drilled 1980

Recompleted July, 1991

Not to Scale



NATEC MINERALS INC.

DOWN-GRADIENT

MONITORING WELLS

Figure 5

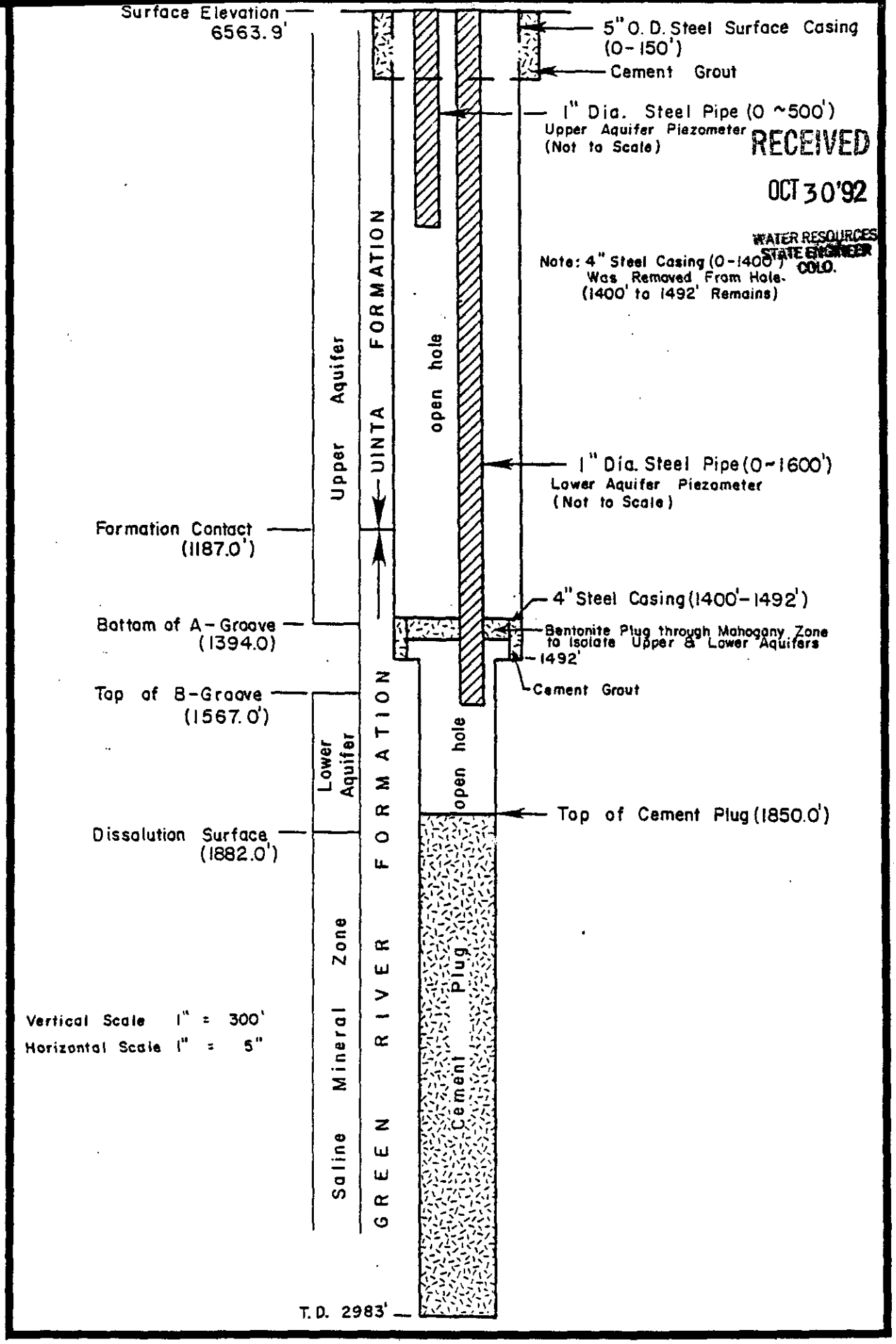


Figure 4. Completion diagram for core hole MMC-IRI-5 (Cliffs Engineering, Inc., 1983).

TIMOTHY R. BUCHANAN, P.C.
ATTORNEYS AT LAW
Please send correspondence to:
PARK PLACE OFFICES
3100 ARAPAHOE AVENUE, SUITE 204
BOULDER, COLORADO 80303

(303) 443-9898
FACSIMILE (303) 443-4571

TIMOTHY R. BUCHANAN

October 29, 1992

CERTIFIED MAIL

Mr. Hal Simpson, State Engineer
Office of the State Engineer
1313 Sherman Street - Room 818
Denver, Colorado 80203

RE: NaTec Minerals, Inc.

Dear Mr. Simpson:

Please find enclosed a check in the amount of Sixty Dollars ($60.00) in payment of the filing fee for the NaTec Minerals, Inc. well permit application for the monitoring and observation well, MMC-IRI-5.

Please feel free to contact me if you have any comments or question.

Sincerely,

TIMOTHY R. BUCHANAN, P.C.

Timothy R. Buchanan

TRB:pax
Enclosures
cc: w/enclosures
Ed Baker
Jack M. McCormack
Frank Perrone

FORM NO. GWS-11 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 28 '92
WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP / ADDRESS

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. CURRENT OWNER

NAME(S) White River Nahcolite Minerals Ltd., Liability Co
Mailing Address 3505 Co. Road 83, P.O. Drawer 72.
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

[X] WELL PERMIT NUMBER 040207-M
[ ] LIVESTOCK WATER TANK NUMBER
[ ] EROSION CONTROL DAM NUMBER

3. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-6

(Address) (City) (State) (Zip)

SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 [ ] N. or [X] S., Range 98 [ ] E. or [X] W. 6 P.M.

Distances from Section Lines 700 Ft. from [ ] N. or [X] S. Line, 1120 Ft. from [X] E. or [ ] W. Line.

Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____

_____ 1/4, Sec. _____ Twp. _____ [ ] N. or [ ] S., Range _____ [ ] E. or [ ] W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.
The existing record is being amended for the following reason(s):

[X] Change in name of owner. [ ] Change in mailing address.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger Day	10/21/92

FOR OFFICE USE ONLY

ACCEPTED FOR A CHANGE IN OWNERSHIP ONLY

Hal D. Simpson — State Engineer
Norman L. Hill — By
12-9-1992 — Date

Court Case No. _____ Div. 6 Co. 52 WD 43 Basin _____ MD _____ Use O M

FORM NO. GWS-10 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 30 '92
WATER RESOURCES
STATE ENGINEER
COLO.

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 040207 M

1. WELL OWNER
NAME(S) NaTec Minerals, Inc.
Mailing Address 3200 Co. Road 31, P.O. Drawer 72
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-6
(Address) (City) (State) (Zip)
SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 ☐ N. or ☒ S., Range 98 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines 700 Ft. from ☐ N. or ☒ S. Line, 1120 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): monitoring and observation, including monitoring water levels and water quality sampling

4. Water from the well was first used beneficially for the above purpose(s) on November 8 1991

5. The pumping rate claimed is 15 gallons per minute.

6. The average annual amount of water diverted is less than 1 acre feet.

7. The land area irrigated (watered) by water from this well is: N/A (Number) ☐ Acres or ☐ Square feet,
described as: (Legal Description)
or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Existing Well Lic. No:
Pump installed by: Lic. No:

9. Meter Mfg. by Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger L. Day	10/22/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19,1992, monitoring and observation well use is an exempt pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

State Engineer By Date

Court Case No. Div. Co. WD Basin MD Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

The Statement must be typewritten or printed in BLACK INK. Initial and date any changes you make on the form. INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.
NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.

Item Number

1. Print the well owner's name and include the mailing address and phone number.

2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.

3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.

4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.

5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.

6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.

7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.

8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.

9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.

10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
209 ARIX BUILDING
800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

WJR-26-77

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HEREON. TYPE OR PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 040207 M

RECEIVED
OCT 30 '92
WATER RESOURCES
STATE ENGINEER
COLO.

WELL OWNER NaTec Minerals, Inc. SE ¼ of the SE ¼ of Sec. 23,

ADDRESS 3200 Co. Rd. 31, P.O. Drawer 72 T. 1 S, R. 98 W, 6 P.M.

DATE COMPLETED November 8, 19 91

HOLE DIAMETER see attached diagram

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

DRILLING METHOD _____

CASING RECORD: Plain Casing see attached diagram

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD see attached diagram

Material _____

Intervals _____

Placement Method _____

GRAVEL PACK: Size _____

Interval _____

TEST DATA

Date Tested _____, 19 ___

Static Water Level Prior to Test _____ ft.

Type of Test Pump _____

Length of Test _____

Sustained Yield (Metered) _____

Final Pumping Water Level _____

WELL LOG

From	To	Type and Color of Material	Water Loc.

TOTAL DEPTH _____

Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make TIMCO

Type Low Volume Gas Lift

Powered by Compressed Nitrogen HP N/A

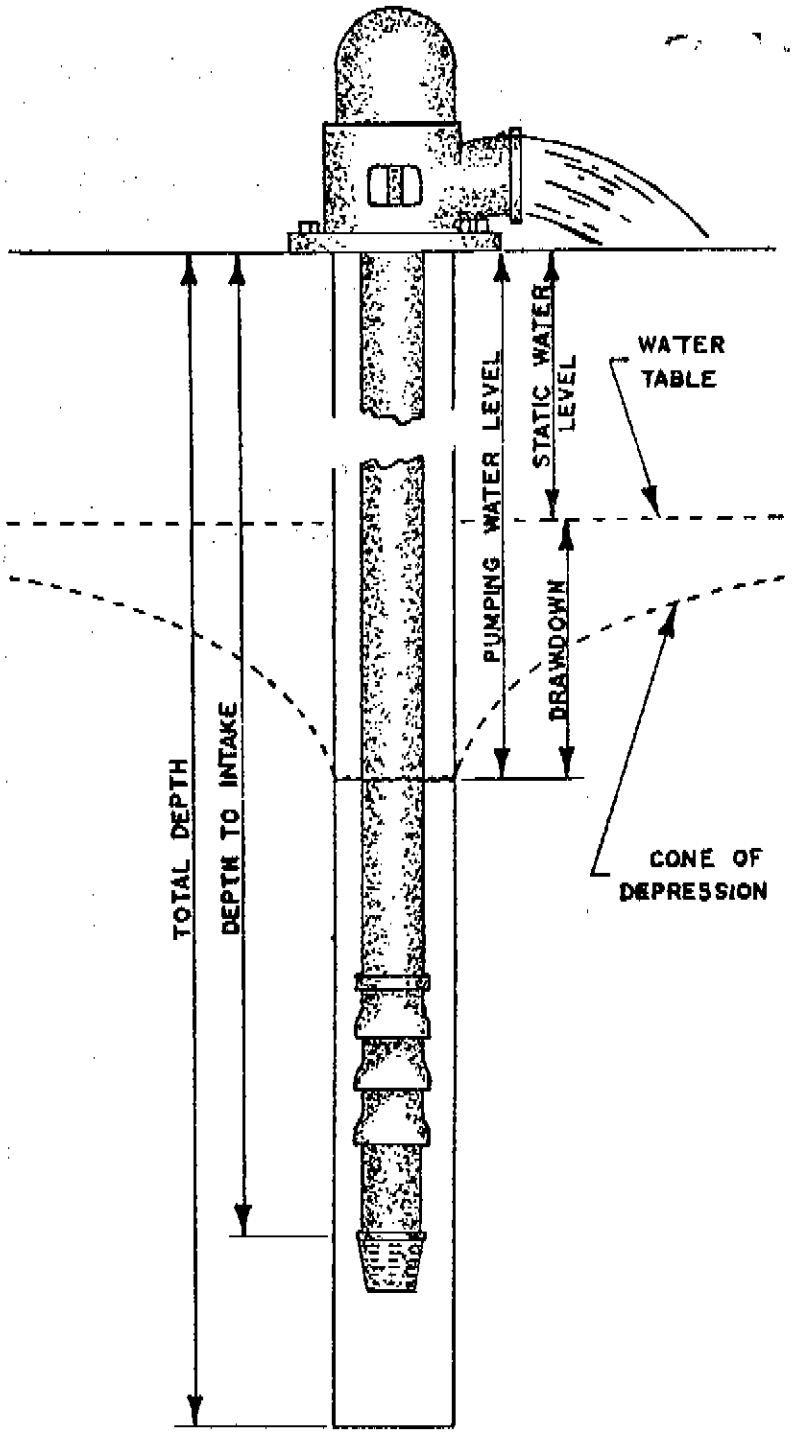
Pump Serial No. None

Motor Serial No. None

Date Installed September 22, 1990

Pump Intake Depth 1576.5'

Remarks See attached drawings for original and 1990 recompletion.



WELL TEST DATA WITH PERMANENT PUMP

Date Tested N/A

Static Water Level Prior to Test _____

Length of Test _____ Hours

Sustained yield (Metered) _____ GPM

Pumping Water Level _____

Remarks Sampled monthly see annual report for depths and quality.

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Roger Day License No. _____

State of Colorado, County of Rio Blanco SS

Subscribed and sworn to before me this 22nd day of October, 1992.

My Commission expires: 6/21, 1994.

Notary Public Yvette K. Gustad

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

40207-M

IRI - 6

B- Groove Monitoring Well

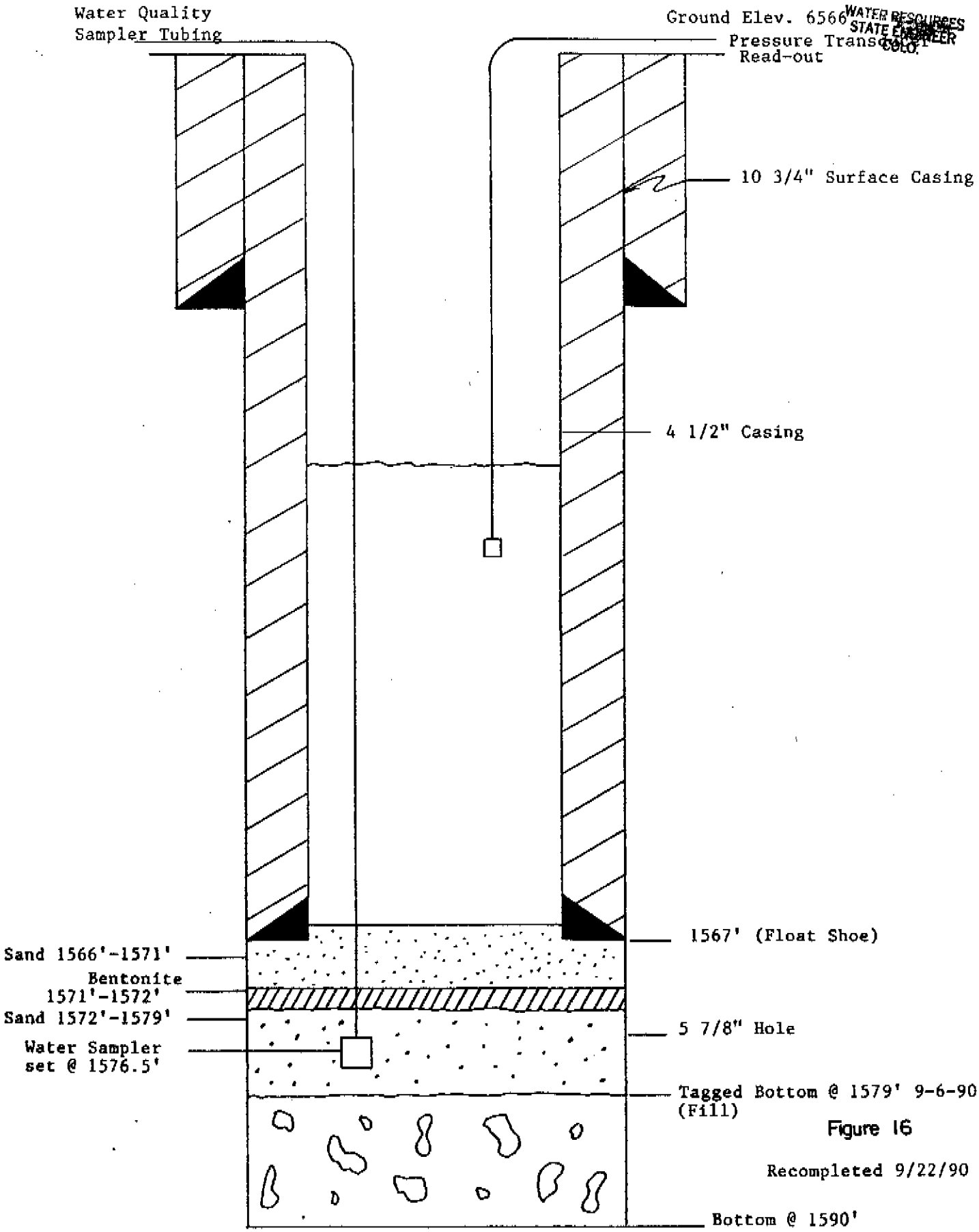


Figure 16

Recompleted 9/22/90

E Form No. GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

WELL PERMIT NUMBER 040207 - M -

DIV. 6 CNTY. 52 WD 43 DES. BASIN ___ MD ___

Lot: Block: Filing: Subdiv:

APPLICANT

NATEC MINERALS INC
3505 CO RD 83 P O 72
RIFLE, CO 81650

(303) 878-3674

APPROVED WELL LOCATION

COUNTY RIO BLANCO

SE 1/4 SE 1/4 Section 23

Twp 1 S, Range 98 W 6th P.M.

DISTANCES FROM SECTION LINES

700 Ft. from South Section Line

1120 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL MMC-IRI-6 (MH-16412)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.

3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.

4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.

5) Records of water level measurements and water quality analyses shall be maintained by the well owner in accordance with the decree entered by the Division 5 Water Court in Case No. 88CW420 and submitted to the Division of Water Resources annually.

6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.

7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.

8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.

9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.

10) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED: FML

State Engineer

By

Receipt No. 0330744F

DATE ISSUED NOV 08 1991

EXPIRATION DATE NOV 08 1992

WRJ-5-Rev. 76

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

PERMIT APPLICATION FORM

RECEIVED
SEP 27 '91
WATER RESOURCES
STATE ENGINEER
COLO.

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

FOR:
( ) A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
(X) A PERMIT TO INSTALL A PUMP

( ) REPLACEMENT FOR NO. _____
(X) OTHER monitoring and observation
WATER COURT CASE NO. 88CW420

(1) APPLICANT - mailing address

NAME NaTec Minerals, Inc.

STREET 3505 Co. Rd. 83, P.O. Drawer 72

CITY Rifle Colorado 81650
(State) (Zip)

TELEPHONE NO. (303) 878-3674

(2) LOCATION OF PROPOSED WELL

County Rio Blanco

SE ¼ of the SE ¼, Section 23

Twp. 1 S (N,S), Rng. 98 W (E,W), 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15 gpm

Average annual amount of ground water to be appropriated (acre-feet): less than 1 acre-foot

Number of acres to be irrigated: N/A

Proposed total depth (feet): 1579

Aquifer ground water is to be obtained from:
B-Groove Aquifer

Owner's well designation MMC-IRI-6

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
( ) DOMESTIC (1) ( ) INDUSTRIAL (5)
( ) LIVESTOCK (2) ( ) IRRIGATION (6)
( ) COMMERCIAL (4) ( ) MUNICIPAL (8)

(X) OTHER (9) monitoring and observation

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Licensed

Street _____

City _____
(State) (Zip)

Telephone No. _____ Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 330744F

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

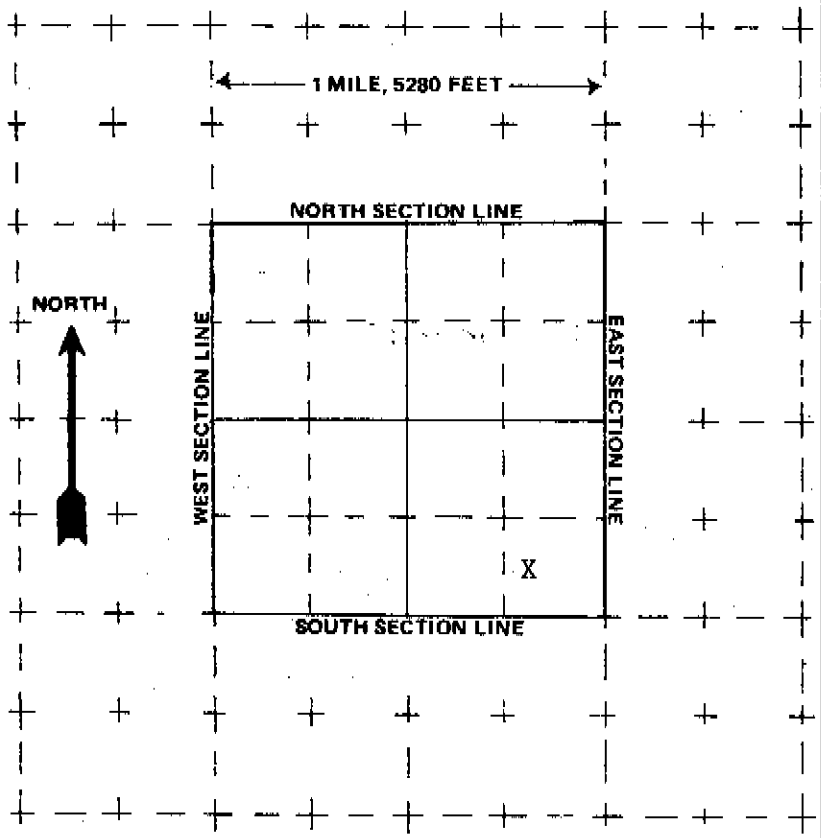
EXPIRATION DATE _____

_____
(STATE ENGINEER)

BY _____

I.D. 6 COUNTY 52 - 43

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

700 ft. from South (north or south) sec. line

1120 ft. from East (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: USA

No. of acres 8224. Will this be the only well on this tract? no

(8) PROPOSED CASING PROGRAM

Plain Casing SEE ATTACHED EXHIBIT

4 1/2 in. from suface ft. to 1567 ft.

_____ in. from _____ ft. to _____ ft.

~~Perforated casing~~ Open Hole

5 7/8 in. from 1567 ft. to 1579 ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) DETAILED DESCRIPTION of the use of ground water: **Household use and domestic wells must indicate type of disposal system to be used.** N/A

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
See decree in	Case No. 88CW420	

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

NaTec Minerals, Inc. Roger Day

SIGNATURE OF APPLICANT(S)

Roger L. Day
Manager Mine Development

Use additional sheets of paper if more space is required.

FORM NO. GWS-11 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 28 '92
WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP / ADDRESS

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. CURRENT OWNER

NAME(S) White River Nahcolite Minerals Ltd. Liability Co
Mailing Address 3505 Co. Road 83, P.O. Drawer 72
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

[X] WELL PERMIT NUMBER 040208-M
[ ] LIVESTOCK WATER TANK NUMBER
[ ] EROSION CONTROL DAM NUMBER

3. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-7

(Address) (City) (State) (Zip)

SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 [ ] N. or [X] S., Range 98 [ ] E. or [X] W. 6 P.M.

Distances from Section Lines 510 Ft. from [ ] N. or [X] S. Line, 1300 Ft. from [X] E. or [ ] W. Line.

Subdivision Lot Block Filing (Unit)

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY

1/4. Sec. Twp. [ ] N. or [ ] S., Range [ ] E. or [ ] W. P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.
The existing record is being amended for the following reason(s):

[X] Change in name of owner. [ ] Change in mailing address.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger Day	10/21/92

FOR OFFICE USE ONLY

ACCEPTED FOR A CHANGE IN OWNERSHIP ONLY

Hal D. Simpson — State Engineer
Norman L. Hill — By
12-9-1992 — Date

Court Case No. Div. 6 Co. 52 WD 43 Basin MD Use O M

FORM NO. GWS-10 10/89

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED
OCT 30 '92
WATER RESOURCES STATE ENGINEER COLO.

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 040208 M

1. WELL OWNER
NAME(S) NaTec Minerals, Inc.
Mailing Address 3200 Co. Road 31, P.O. Drawer 72
City, St. Zip Rifle, Colorado 81560
Phone (303) 878-3674

2. WELL LOCATION: COUNTY Rio Blanco OWNER'S WELL DESIGNATION MMC-IRI-7
(Address) (City) (State) (Zip)
SE 1/4 of the SE 1/4, Sec. 23 Twp. 1 ☐ N. or ☒ S., Range 98 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines 510 Ft. from ☐ N. or ☒ S. Line, 1300 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): monitoring and observation, including monitroing water levels and water quality sampling

4. Water from the well was first used beneficially for the above purpose(s) on November 8 1991

5. The pumping rate claimed is 15 gallons per minute.

6. The average annual amount of water diverted is less than 1 acre feet.

7. The land area irrigated (watered) by water from this well is: N/a (Number) ☐ Acres or ☐ Square feet,
described as: (Legal Description)
or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Existing Well Lic. No:
Pump installed by: Lic. No:

9. Meter Mfg. by Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)	Signature	Date
Roger L. Day Manager, Mine Development	Roger Day	10/22/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19,1992, monitoring and observation well use is an exempt pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

State Engineer By Date

Court Case No. Div. Co. WD Basin MD Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

The Statement must be typewritten or printed in BLACK INK. Initial and date any changes you make on the form. INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.
NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.

Item Number

1. Print the well owner's name and include the mailing address and phone number.

2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.

3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.

4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.

5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.

6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.

7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.

8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.

9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.

10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
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800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

WJR-26-77

RECEIVED

OCT 30 '92

WATER RESOURCES
STATE ENGINEER
COLO.

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HEREON. TYPE OR PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 040208 M

WELL OWNER NaTec Minerals, Inc.

ADDRESS 3200 Co. Rd. 31, P.O. DRawer 72

DATE COMPLETED November 8, 19 91

SE ¼ of the SE ¼ of Sec. 23,

T. 1 S, R. 98 W, 6 P.M.

HOLE DIAMETER see attached diagram

____ in. from ____ to ____ ft.

____ in. from ____ to ____ ft.

____ in. from ____ to ____ ft.

DRILLING METHOD ____

CASING RECORD: **Plain Casing** see attached diagram

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

Perforated Casing

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

GROUTING RECORD see attached diagram

Material ____

Intervals ____

Placement Method ____

GRAVEL PACK: Size ____

Interval ____

TEST DATA

Date Tested ____, 19 ____

Static Water Level Prior to Test ____ ft.

Type of Test Pump ____

Length of Test ____

Sustained Yield (Metered) ____

Final Pumping Water Level ____

WELL LOG

From	To	Type and Color of Material	Water Loc.

TOTAL DEPTH ____

Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make TIMCO

Type Low Volume Gas Lift

Powered by Compressed Nitrogen HP N/A

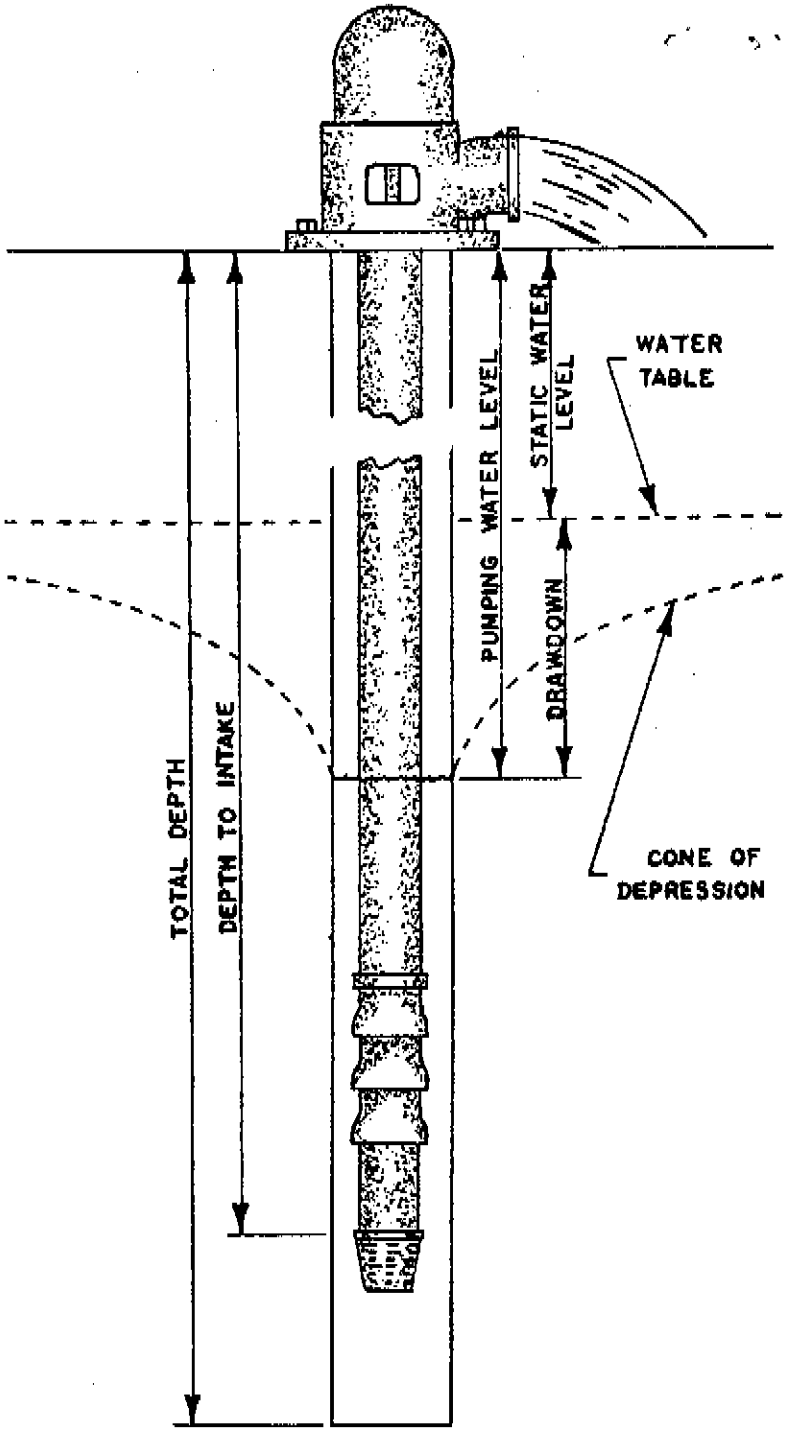
Pump Serial No. None

Motor Serial No. None

Date Installed September 20, 1990

Pump Intake Depth 1868'

Remarks See attached drawings for original and 1990 recompletion.



WELL TEST DATA WITH PERMANENT PUMP

Date Tested N/A

Static Water Level Prior to Test _____

Length of Test _____ Hours

Sustained yield (Metered) _____ GPM

Pumping Water Level _____

Remarks Sampled monthly see annual report for depths and quality.

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Roger Day License No. _____

State of Colorado, County of Rio Blanco SS

Subscribed and sworn to before me this 22nd day of October, 1992.

My Commission expires: 6/21, 1994.

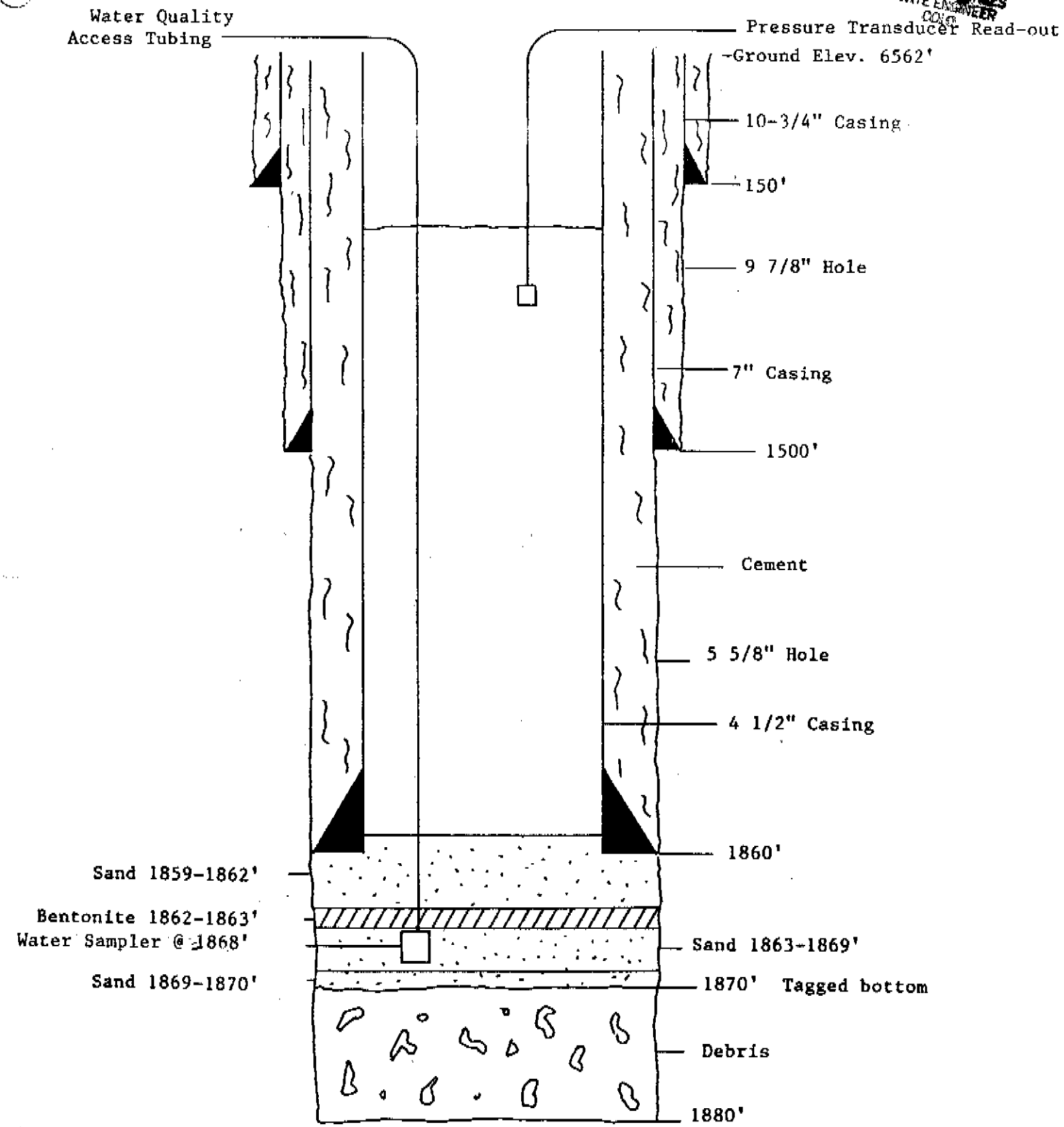
Notary Public Yvette K. Gustad

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

40208-M

MMC IRI-7

DownDip Dissolution Surface Monitoring Well



Recompleted 9/20/90

Figure 17

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

WELL PERMIT NUMBER 040208 - M -

DIV. 6 CNTY. 52 WD 43 DES. BASIN ___ MD ___

Lot: Block: Filing: Subdiv:

APPLICANT

NATEC MINERALS INC
3505 CO RD 83 P O 72
RIFLE, CO 81650

(303) 878-3674

APPROVED WELL LOCATION

COUNTY RIO BLANCO

SE 1/4 SE 1/4 Section 23

Twp 1 S, Range 98 W 6th P.M.

DISTANCES FROM SECTION LINES

510 Ft. from South Section Line

1300 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL MMC-IRI-7 (MH-16412)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.

3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.

4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.

5) Records of water level measurements and water quality analyses shall be maintained by the well owner in accordance with the decree entered by the Division 5 Water Court in Case No. 88CW420 and submitted to the Division of Water Resources annually.

6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.

7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.

8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.

9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.

10) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED: FML

State Engineer

By

Receipt No. 0330744G

DATE ISSUED NOV 08 1991

EXPIRATION DATE NOV 08 1992

WRJ-5 Rev. 76

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

RECEIVED
SEP 27 '91
WATER RESOURCES
STATE ENGINEER
COLO.

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

FOR:
( ) A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
(X) A PERMIT TO INSTALL A PUMP

( ) REPLACEMENT FOR NO. _____
(X) OTHER monitoring and observation
WATER COURT CASE NO. 88CW420

(1) APPLICANT - mailing address

NAME NaTec Minerals, Inc.

STREET 3505 Co. Rd. 83, P.O. Drawer 72

CITY Rifle Colorado (State) 81650 (Zip)

TELEPHONE NO. (303) 878-3674

(2) LOCATION OF PROPOSED WELL

County Rio Blanco

SE ¼ of the SE ¼, Section 23

Twp. 1 S (N,S), Rng. 98 W (E,W), 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15 gpm

Average annual amount of ground water to be appropriated (acre-feet): less than 1 acre-foot

Number of acres to be irrigated: N/A

Proposed total depth (feet): 1880

Aquifer ground water is to be obtained from:
Dissolution Surface Aquifer

Owner's well designation MMC-IRI-7

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
( ) DOMESTIC (1)
( ) LIVESTOCK (2)
( ) COMMERCIAL (4)
( ) INDUSTRIAL (5)
( ) IRRIGATION (6)
( ) MUNICIPAL (8)

(X) OTHER (9) monitoring and observation

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Licensed

Street _____

City _____ (State) (Zip)

Telephone No. _____ Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 330744G

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

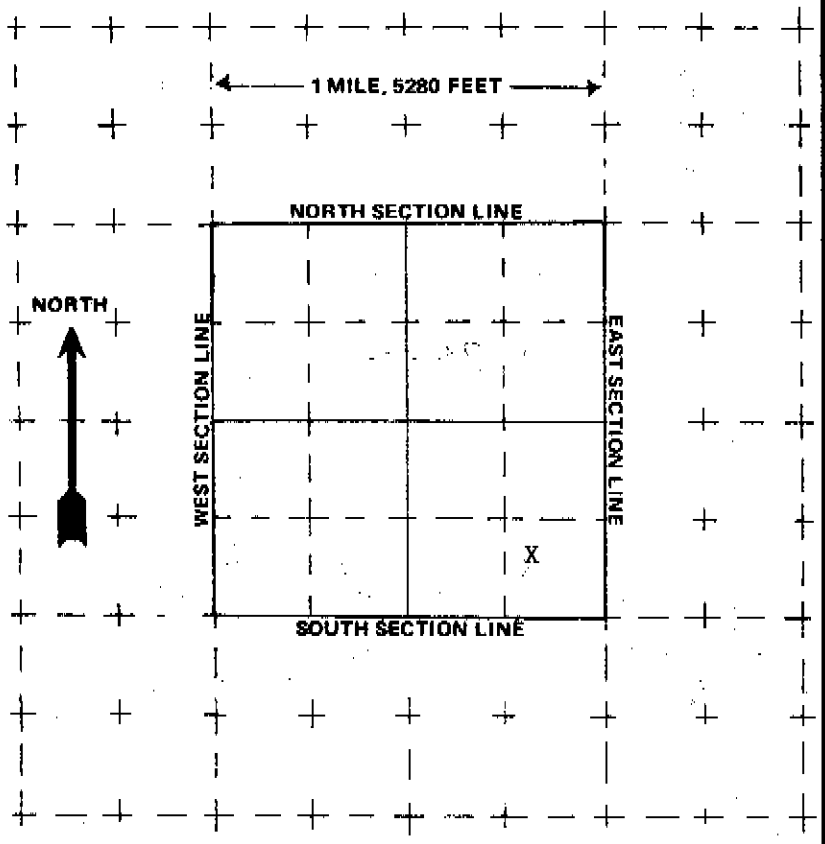
EXPIRATION DATE _____

_____
(STATE ENGINEER)

BY _____

I.D. 6 COUNTY 52-43

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

510 ft. from South (north or south) sec. line

1300 ft. from East (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: USA

No. of acres 8224. Will this be the only well on this tract? no

(8) PROPOSED CASING PROGRAM

Plain Casing SEE ATTACHED EXHIBIT

4 1/2 in. from surface ft. to 1860 ft.

_____ in. from _____ ft. to _____ ft.

~~Perforated casing~~ Open Hole

5 5/8 in. from 1860 ft. to 1880 ft.

3 7/8 in. from 1880 ft. to 1882 ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) DETAILED DESCRIPTION of the use of ground water: **Household use and domestic wells must indicate type of disposal system to be used.**

N/A

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
See decree in	Case No. 88CW420	

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

NaTec Minerals, Inc.

SIGNATURE OF APPLICANT(S)

Roger L. Day
Manager Mine Development

Use additional sheets of paper if more space is required.