

FORM NO. GVS-32 11/90

PUMP INSTALLATION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

RECEIVED For Office Use only JUL 19 95 WATER RESOURCES STATE ENGINEER GOLD

1. WELL PERMIT NUMBER 199280

2. OWNER NAME(S) Gary Johnson Mailing Address 4900 E Blaney City, St. Zip Forton, CO 80831 Phone (719) 683-2256

3. WELL LOCATION AS DRILLED: NE 1/4 NE 1/4, Sec. 4 Twp. 13S Range 65W 6th DISTANCES FROM SEC. LINES: 250 ft. from North Sec. line, and 1000 ft. from East Sec. line. SUBDIVISION: 1/2 acre LOT 6 BLOCK 4 FILING(UNIT) 2 STREET ADDRESS AT WELL LOCATION:

4. PUMP DATA: Type submersible Installation Completed 6-29-95 Pump Manufacturer Grundfos Pump Model No. 106515412 Design GPM 10 at RPM 3450 HP 1 1/2 Volts 230 Full Load Amps Pump Intake Depth 430 Feet, Drop/Column Pipe Size 1" Inches, Kind PVC

ADDITIONAL INFORMATION FOR PUMPS GREATER THAN 50 GPM:

TURBINE DRIVER TYPE: Electric Engine Other Design Head feet, Number of Stages Shaft size inches.

5. OTHER EQUIPMENT: Airline Installed Yes No, Orifice Depth ft. Monitor Tube Installed Yes No, Depth ft. Flow Meter Mfg. Meter Serial No. Meter Readout Gallons Thousand Gallons Acre feet Beginning Reading

6. TEST DATA: Check box if Test data is submitted on Supplemental Form. Total Well Depth 480' Date 2-10-95 Time 4 hrs 5 min Rate (GPM) 10 gpm Pumping Lvl. 430' by driller

7. DISINFECTION: Type HTH Amt. Used 3.5 oz

8. Water Quality analysis available. Yes No

9. Remarks

10. I have read the statements made herein and know the contents thereof, and that they are true to my 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.]

CONTRACTOR Barnhart Pump Company Phone (719) 445-2912 Lic. No. 1122 Mailing Address 11680 Edgar Dr Forton, CO 80831

Name/Title (Please type or print) Steve Barnhart / President Signature Steve Barnhart Date 7-17-95

RECEIVED APR 21 1995 WATER RESOURCES STATE

1. WELL PERMIT NUMBER 177280
2. OWNER NAME(S) Gary Johnson
Mailing Address 4960 E. Blaney
City, St. Zip Peyton, Co. 80831
Phone (719)683-2356

3. WELL LOCATION AS DRILLED: NE 1/4 NE 1/4, Sec. 4 Twp. 13 S, Range 65 W 6th
DISTANCES FROM SEC. LINES: 250 ft. from North Sec. line. and 1200 ft. from East Sec. line. OR
SUBDIVISION: Bar JB acres LOT 6 BLOCK 4 FILING(UNIT) 2
STREET ADDRESS AT WELL LOCATION:

4. GROUND SURFACE ELEVATION ft. DRILLING METHOD Air Rotary
DATE COMPLETED 02/10/95 TOTAL DEPTH 480 ft. DEPTH COMPLETED 480 ft.

5. GEOLOGIC LOG: Table with columns Depth and Description of Material (Type, Size, Color, Water Location). Rows include Topsoil, Loose sand & gravel, Brown clay + sand, Sand + gravel, Clay, Sandy blue shale, Loose sand + gravel, Shale w/ quartz mix, Loose gravel + quartz w/ shale layers, Shale, Med. quartz to fine mixed w/ clay, Blue shale, Sandy blue w/ sand layers, Quartz w/ shale layers, Shale, Bottom.

6. HOLE DIAM. (in.) From (ft) To (ft)
8 3/4 0 20
6 1/8 20 480

7. PLAIN CASING Table with columns OD (in), Kind, Wall Size, From(ft), To(ft). Rows include Steel (.188) and P.V.C. (.227) at various depths.

8. FILTER PACK: Material Gravel, Size 1/4" Rock, Interval 20-260&280-480

9. PACKER PLACEMENT: Type, Depth

REMARKS:

10. GROUTING RECORD: Table with columns Material, Amount, Density, Interval, Placement. Rows include Cement 94# X 6gal. 7-20 Poured and Cement 188# X 12gal. 260-280 Pumped.

11. DISINFECTION: Type HTH Amt. Used 10 oz.

12. WELL TEST DATA: TESTING METHOD Airlifted
Static Level 300 ft. Date/Time measured 02/10/95, Production Rate 10 gpm.
Pumping level 420 ft. Date/Time measured 02/10/95, Test length (hrs.) 4 hrs.

13. I have read the statements made herein and know the contents thereof, and that they are true to my 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.]

CONTRACTOR Can-America Drilling, Inc. Phone (719)541-2967 Lic. No. 1149
Mailing Address Box 416 Simla, Co. 80835

Name/Title (Please type or print) Wayne Arde V.P. Signature [Signature] Date 02/10/95

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

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

LIC

WELL PERMIT NUMBER	<u>177280</u>
DIV. 2	CNTY. 21
WD 10	DES. BASIN MD

APPLICANT

PATRICK S J CARMACK
8460 COCHISE ROAD
CO SPGS CO 80908

(719)495-0090

Lot: 6 Block: 4 Filing: 2 Subdiv: BAR JB ACRES

APPROVED WELL LOCATION
EL PASO COUNTY

NE 1/4 NE 1/4 Section 4
Twp 13 S RANGE 65 W 6th P.M.

DISTANCES FROM SECTION LINES

250 Ft. from North Section Line
1200 Ft. from East Section Line

PERMIT TO CONSTRUCT A WELL

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)(I) and policy of the State Engineer under the following conditions.
- 4) The use of ground water from this well is limited to ordinary household purposes inside one single family dwelling, the watering of domestic animals, and the irrigation of not more than 43,560 square feet (1 acre) of home gardens and lawns.
- 5) The water from this well may be used for the watering of up to four (4) large non-commercial domestic animals.
- 6) Production from this well is restricted to the Denver aquifer which corresponds to the interval between 270 feet and 1130 feet below ground surface. Plain casing shall be installed and sealed to prevent production from other zones.
- 7) The maximum pumping rate shall not exceed 15 GPM.
- 8) The annual amount of ground water to be withdrawn shall not exceed 2.5 acre-feet.
- 9) The return flow from the use of the well must be through an individual waste water disposal system of the type so that not less than 4% of the total amount of water withdrawn is returned to the same stream system in which the well is located.
- 10) This well shall be constructed not more than 200 feet from the location specified on this permit. *RM 4-2-94*

Note: To insure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

APPROVED
RAN

Hal D. Simpson

State Engineer

Receipt No. 0365035

DATE ISSUED APR 14 1994

By *John W. Bilkley*

EXPIRATION DATE APR 14 1996

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

11/280
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FEB 01 '94

PERMIT APPLICATION FORM

WATER RESOURCES
STATE ENGINEER
COLO.

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

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

() REPLACEMENT FOR NO. _____
() OTHER _____
WATER COURT CASE NO. _____

RECEIVED

MAR 28 '94

WATER RESOURCES

(1) **APPLICANT** - mailing address

NAME Patrick S.J. Carmack
STREET 8460 Cochise Road
CITY Colorado Springs CO 80908
(State) (Zip)
TELEPHONE NO. 719 / 4950090

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 365035 / _____
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.

(2) **LOCATION OF PROPOSED WELL**

County El Paso
NE ¼ of the NE ¼, Section 4
Twp. 13 S, Rng. 65 W, 6th P.M.
(N,S) (E,W)

62-B
7030
AM
1 ACRE
S
200' 32

(3) **WATER USE AND WELL DATA**

Proposed maximum pumping rate (gpm) 15
Average annual amount of ground water to be appropriated (acre-feet): 2.5 2.5 PSC
Number of acres to be irrigated: 1
Proposed total depth (feet): approx. 300' PSC
Aquifer ground water is to be obtained from: Denver
Owner's well designation Lot 6 Well

Best Copy Available

GROUND WATER TO BE USED FOR:

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

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

EXPIRATION DATE _____

(STATE ENGINEER)

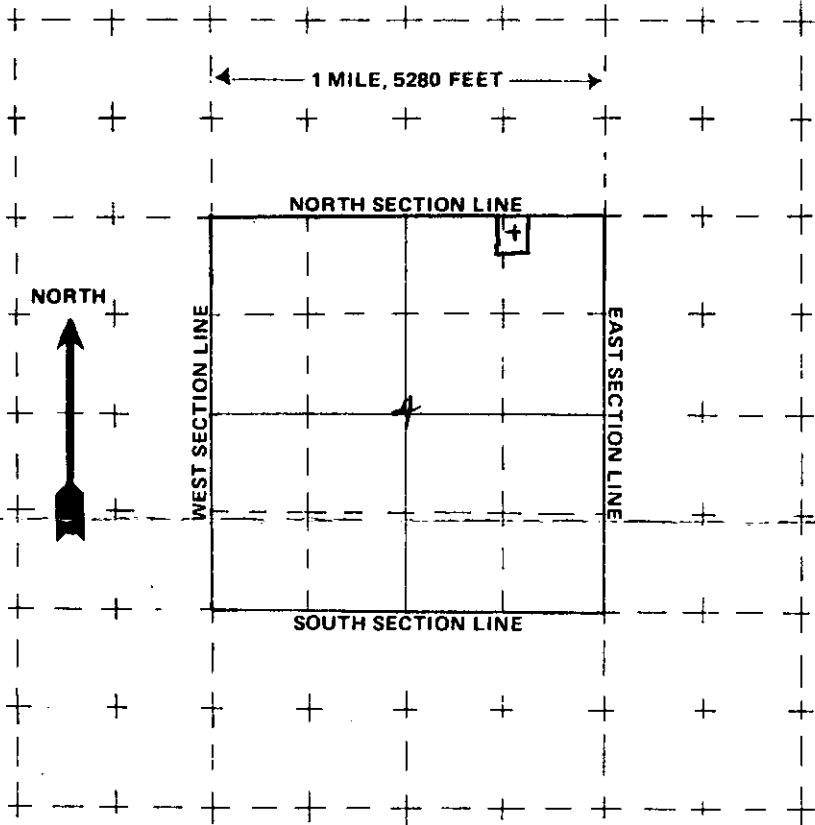
BY _____

I.D. 2 COUNTY 21 10

(4) **DRILLER** Licensed

Name _____
Street _____
City _____
(State) (Zip)
Telephone No. _____ Lic. No. _____

(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.

250 ft. from North sec. line
(north or south)
1200' ft. from East sec. line
(east or west)
LOT 6 BLOCK 4 FILING # 2nd
SUBDIVISION Bar JFB Acres

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Patrick S.J. Cormack

No. of acres 57. Will this be the only well on this tract? yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing
5" steel in. from 0 ft. to 20 ft.
5" in. from 20 ft. to 270 ft. BSO
Perforated casing
5" in. from 270 ft. to 300 ft. BSO
_____ in. from _____ ft. to _____ ft.

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

n/a

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

Owner(s): Patrick S.J. Cormack No. of acres: 57

Legal description: Lot 6 Block Bar J-B Acres 2nd Filing

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

Domestic & Domestic Animals
Septic Tank Leach Field
1 acre lawn & gardens BSO 3/25/94

(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

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

[Signature]
SIGNATURE OF APPLICANT(S)

EXEMPT WELL DATA SHEET - DENVER BASIN, COLORADO

APPLICANT: CARMACK RECEIPT NO. 365035
 LOCATION: NE1/4 OF NE1/4 OF SEC. 4, T.13S., R.65W. (250 NSL, 1200 ESL)

PROPOSED AQUIFER: DENVER
 SURFACE ELEVATION: 7030 NUMBER OF ACRES IN TRACT: 5

IS PROPERTY WITHIN SERVICE BOUNDARIES OF MUNICIPALITY S.B.5 CONSENT MAPS? NO YES *SUB*
 IF SUBDIVISION IS UNDER AUGMENTATION PLAN, CASE NO. IS _____, DIV. _____
 IF SUBDIVISION WAS RECOMMENDED FOR APPROVAL BY THE WATER MANAGEMENT BRANCH, DATE OF LETTER IS 1959.
 INFORMATION ON SUBDIVISION OR TRACT OF LAND/SPECIAL RESTRICTIONS:

evaluated by RAN on MARCH 10, 1994

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	6806	6963	78	224	67	0.780	NNT
LOWER DAWSON	---	---	---	---	---	---	---
*DENVER	5898	6761	313	1132	269	2.652	NNT
UPPER ARAPAHOE	5353	5857	231	1677	1173	1.964	NNT
LOWER ARAPAHOE	---	---	---	---	---	---	---
LARAMIE-FOX HILLS	4788	5072	189	2242	1958	1.410	NT

note: E indicates location is at aquifer boundary and values may be more approximate.
 * indicates the proposed aquifer.

All values are interpolated from the S.B.5 data base assembled in November of 1986.

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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.

- A PERMIT TO USE GROUND WATER
- A PERMIT TO CONSTRUCT A WELL
- FOR: A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
 () OTHER _____
 WATER COURT CASE NO. _____

(1) APPLICANT - mailing address

NAME Patrick ST. Carmack
 STREET 8460 Cochise Road
 CITY Colorado Springs CO 80908
(State) (Zip)
 TELEPHONE NO. 719 / 4950090

(2) LOCATION OF PROPOSED WELL

County El Paso
NE ¼ of the NE ¼, Section 4
 Twp. 13 S, Rng. 65 W, 6th P.M.
(N.S) (E.W)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15
 Average annual amount of ground water to be appropriated (acre-feet): 1
 Number of acres to be irrigated: 1
 Proposed total depth (feet): 250
 Aquifer ground water is to be obtained from:
Denver
 Owner's well designation Lot 6 Well

GROUND WATER TO BE USED FOR:

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

DETAIL THE USE ON BACK IN (11)

(4) DRILLER Licensed

Name _____
 Street _____
 City _____
(State) (Zip)
 Telephone No. _____ Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 365035 / _____
 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.

62-B
 7130
 AU
 13000
 3

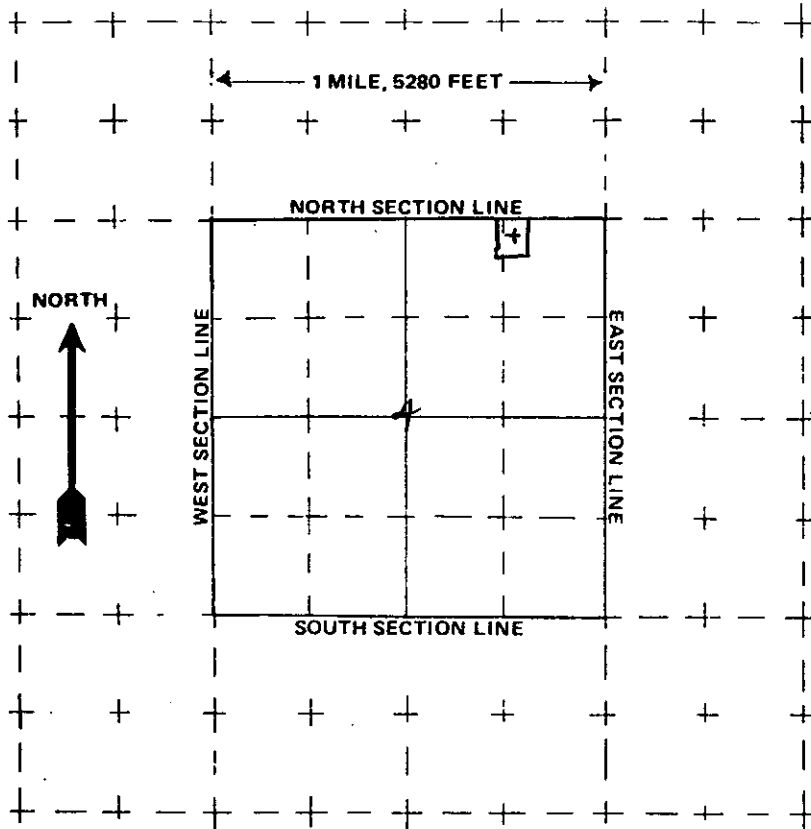
A4
 3-23-94

APPLICATION APPROVED

PERMIT NUMBER _____
 DATE ISSUED _____
 EXPIRATION DATE _____

(STATE ENGINEER)
 BY _____
 I.D. 2 COUNTY 21 10

(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.

250 ft. from North sec. line
(north or south)

1200' ft. from east sec. line
(east or west)

LOT 6 BLOCK 4 FILING # 2nd
SUBDIVISION Bar J-B Acres

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Patrick S.J. Carmack

No. of acres 57. Will this be the only well on this tract? YES

(8) **PROPOSED CASING PROGRAM**

Plain Casing

5" steel in. from 0 ft. to 20 ft.

5" in. from 20 ft. to 150 ft.

Perforated casing

5" in. from 150 ft. to 250 ft.

_____ in. from _____ ft. to _____ ft.

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

n/a

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

Owner(s): Patrick S.J. Carmack No. of acres: 57

Legal description: Lot 6 Blk 4 Bar J-B Acres 2nd Filing

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

Domestic & Domestic Animals

Septic Tank Leach Field

(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

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

Patrick S.J. Carmack

SIGNATURE OF APPLICANT(S)

STATE OF COLORADO

OFFICE OF THE STATE ENGINEER
Division of Water Resources
Department of Natural Resources

1313 Sherman Street, Room 818
Denver, Colorado 80203
Phone (303) 866-3581
FAX (303) 866-3589



Roy Romer
Governor
Ken Salazar
Executive Director
Hal D. Simpson
State Engineer

March 23, 1994

Patrick Carmack
8460 Cochise Rd
Colo Sprgs Co 80908

Re: Well Permit Application Receipt No. 365035

Mr. Carmack:

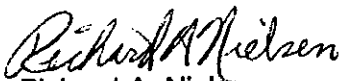
Your application is being returned for correction and additional information. Please initial and date any changes you make to the application form.

At your proposed location and depth you would be producing water from the **Dawson** aquifer. The Dawson aquifer is hydraulically connected to a surface stream which is over appropriated at some or all times of the year. Because of this, your water use would be restricted to in house use only - **no outside uses**. If you do not want outside uses please amend item no. 3, requested aquifer, to read Dawson.

If you want to have a lawn, garden or non-commercial domestic animals (horses) you will have to construct your well in the Denver aquifer. At your location, this aquifer extends from approximately 270 feet to 1130 feet below ground surface.

If you complete your well in the Denver aquifer, the requested annual appropriation is sufficient for household use, the watering of four (4) large non-commercial domestic animals and the irrigation of not over 13,000 square feet of home lawns and gardens. In order to irrigate the requested 1 acre (43,560 square feet) of lawns & gardens your annual appropriation will need to be adjusted to 2.5 acre-feet.

Referencing the information in paragraphs 3 & 4, please amend item nos. 3, 8 & 11 accordingly. Call the information desk of this office at 303-866-3587 if you have any questions.


Richard A. Nielsen
Engineering Technician

PUMP INSTALLATION AND TEST REPORT

For Office Use only

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

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NOV 14 '91

WATER RESOURCES STATE ENGINEER COLO.

1. WELL PERMIT NUMBER 161309 Verbal # 91VE250

2. OWNER NAME(S) Terry J Bertucci
Mailing Address 8175 Mohawk
City, St. Zip Co 5095 Co 80908
Phone ()

3. WELL LOCATION AS DRILLED: NE 1/4 NE 1/4, Sec. 4 Twp. 13 S, Range 65 W
DISTANCES FROM SEC. LINES:
440 ft. from North Sec. line. and 875 ft. from East Sec. line.
SUBDIVISION: BARTB Acres LOT 5 BLOCK 3 FILING(UNIT) 2
STREET ADDRESS AT WELL LOCATION:

4. PUMP DATA: Type Submersible Installation Completed 7-3-91
Pump Manufacturer MC Dowd ALC Pump Model No. 21075 K3
Design GPM 10 at RPM 2640, HP 3/4, Volts 230, Full Load Amps 8.0
Pump Intake Depth 185 Feet, Drop/Column Pipe Size 1 Inches, Kind PVC

ADDITIONAL INFORMATION FOR PUMPS GREATER THAT 50 GPM:

TURBINE DRIVER TYPE: [] Electric [] Engine [] Other
Design Head _____ feet, Number of Stages _____, Shaft size _____ inches.

5. OTHER EQUIPMENT:

Airline Installed [] Yes [] No, Orifice Depth ft. _____, Monitor Tube Installed [] Yes [] No, Depth ft. _____
Flow Meter Mfg. _____ Meter Serial No. _____
Meter Readout [] Gallons, [] Thousand Gallons, [] Acre feet, [] Beginning Reading _____

6. TEST DATA:

[] Check box if Test data is submitted on Supplemental Form.

Total Well Depth 200 Date 7-3-91
Static Level 42 Time 3:40
Date Measured 7-3-91 Rate (GPM) 10
Pumping Lvl. _____

7. DISINFECTION: Type Chlorox Amt. Used 19A2

8. Water Quality analysis available. [] Yes [X] No

9. Remarks

10. I have read the statements made herein and know the contents thereof, and that they are true to my 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.]

CONTRACTOR KUNAV DRILLING + EAC Phone (719) 683-3720 Lic. No. 1148
Mailing Address _____

Name/Title (Please type or print)

Signature

Date

TIM KUNAV owner

Tim Kunav

11-2/91

INSTRUCTIONS FOR PUMP INSTALLATION REPORT

The report must be typed or printed in **BLACK INK**. All changes on the form must be initialed and dated. Attach additional sheets if more space is required. Each additional sheet must be identified at the top by the well owner's name, the permit number, form name/number and a sequential page number. Report depths in feet below ground surface.

This form may be reproduced by photocopy methods, or by computer generation with prior approval by the State Engineer.

The original and one copy of this form must be submitted to the State Engineer's Office within 60 days after completing the well or 7 days after the permit expiration date, whichever is earlier. Another copy of the form must be provided to the well owner.

If this form is submitted in conjunction with the Well Completion and Test Report, form number GWS-31, **ONLY THE PERMIT NUMBER AND OWNER NAME NEED TO BE COMPLETED** in items 1 and 2.

1. Complete the **Permit Number** in full.
2. Fill in **Name and Mailing Address of Well Owner** where correspondence should be sent.
3. Complete the blocks for the **actual** location of the well. For wells located in subdivisions the lot, block and subdivision information must also be provided.
4. Indicate the type of pump installed and complete the requested information. When installing pumps greater than 50 gpm, complete the additional information in this area.
5. Provide the information on other equipment which may be installed in the well.
6. Report test data as required by Rule 13.9. Spaces are provided to report all measurements made during the test. The report should show that the test complied with the provisions of the rules. If a test was not performed explain when it will be done. If available, report clock time when measurements were taken.
7. Record the type and the amount of disinfection used, how placed and the length of time left in the hole.
8. Indicate if a water quality analysis was performed and submit a copy of the report if available.
9. Use the remarks area to note any additional information including additional equipment installed, water supply construction problems.
10. Fill in **Company Name and Address of Contractor** who constructed the well. The report must be signed by the licensed contractor responsible for the installation of pumping equipment.

WELL CONSTRUCTION AND TEST REPORT
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

For Office Use only

WPA 2 MD
RECEIVED

NOV 14 '91

WATER RESOURCES
STATE ENGINEER
C.O.

1. WELL PERMIT NUMBER ~~16067~~ 161309

2. OWNER NAME(S) Romy J Bertucci
Mailing Address 8175 Mohawk
City, St. Zip CO 5293 CO 80908
Phone ()

3. WELL LOCATION AS DRILLED: NE 1/4 NE 1/4, Sec. 4 Twp. 13 S, Range 65 W
DISTANCES FROM SEC. LINES:
140 ft. from North Sec. line. and 875 ft. from EAST Sec. line. OR
(north or south) (east or west)
SUBDIVISION: BAN J-B ACRES LOT 5 BLOCK 3 FILING(UNIT) 2
STREET ADDRESS AT WELL LOCATION:

4. GROUND SURFACE ELEVATION _____ ft. DRILLING METHOD AIR ROTARY
DATE COMPLETED 7-3-91 TOTAL DEPTH 200 ft. DEPTH COMPLETED 200 ft.

5. GEOLOGIC LOG:
Depth Description of Material (Type, Size, Color, Water Location)
0-1 TOPSOIL
1-12 SAND
12-30 BLUE CLAY
30-65 SAND ROCK & CLAY
65-120 SAND ROCK WATER
120-155 SAND ROCK & CLAY
155-190 SAND ROCK WATER
190-200 CLAY

REMARKS: _____

6. HOLE DIAM. (in.)	From (ft)	To (ft)
<u>8"</u>	<u>0</u>	<u>20</u>
<u>6 1/2"</u>	<u>20</u>	<u>200</u>

7. PLAIN CASING				
OD (in)	Kind	Wall Size	From(ft)	To(ft)
<u>6 5/8"</u>	<u>STEEL</u>	<u>1 1/8"</u>	<u>+1</u>	<u>20</u>
<u>4 1/2"</u>	<u>PVC</u>	<u>200PSI</u>	<u>7</u>	<u>60</u>
PERF. CASING: Screen Slot Size: <u>1/4" HOLE 5</u>				
<u>4 1/2"</u>	<u>PVC</u>	<u>200PSI</u>	<u>60</u>	<u>200</u>

8. FILTER PACK:
Material GRAVEL
Size #4
Interval 20-200

9. PACKER PLACEMENT:
Type None
Depth _____

10. GROUTING RECORD:				
Material	Amount	Density	Interval	Placement
<u>Cement</u>	<u>#94</u>	<u>7 GAL</u>	<u>6-20</u>	<u>Poured</u>

11. DISINFECTION: Type CLOROX Amt. Used 1 GAL

12. WELL TEST DATA: Check box if Test Data is submitted on Supplemental Form.
TESTING METHOD AIR LIFT
Static Level 42 ft. Date/Time measured 7-3-91 3:40 PM Production Rate 15 gpm.
Pumping level 180 ft. Date/Time measured 7-3-91 Test length (hrs.) 2 Hrs
Remarks _____

13. I have read the statements made herein and know the contents thereof, and that they are true to my 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.]

CONTRACTOR KUNAV DRILLING & EXC Phone (719) 683-3720 Lic. No. 1149
Mailing Address 23945 LUCKY LN CALHAN CO 80908

Name/Title (Please type or print) <u>TIM KUNAV owner</u>	Signature <u>Tim Kunav</u>	Date <u>11-2/91</u>
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INSTRUCTIONS FOR WELL CONSTRUCTION AND TEST REPORT

The report must be typed or printed in **BLACK INK**. All changes on the form must be initialed and dated. Attach additional sheets if more space is required. Each additional sheet must be identified at the top by the well owner's name, the permit number, form name/number and a sequential page number. Report depths in feet below ground surface.

This form may be reproduced by photocopy methods, or by computer generation with prior approval by the State Engineer.

The original and one copy of this form must be submitted to the State Engineer's Office within 60 days after completing the well or 7 days after the permit expiration date, whichever is earlier. Another copy of the form must be provided to the well owner.

1. Complete the **Well Permit Number** in full.
2. Fill in **Name and Mailing Address of Well Owner** where correspondence should be sent.
3. Complete the blocks for the **actual** location of the well where drilled. If the owner has more than one well serving this property, provide the identification (**Owner's Designation**) for this well. **DO NOT USE THE OWNER SUPPLIED LOCATION** unless a survey has been provided. For wells located in subdivisions the lot, block and subdivision information must also be provided.
4. Report the ground surface elevation in feet above sea level if available. This value may be obtained from a topographic map. Describe the drilling method used to construct the well and the date completed. Indicate the total depth drilled and the actual completed depth of the well.
5. Fully describe the materials encountered in drilling. Do not use formation names unless they are in conjunction with a description of materials.
Examples of descriptive terms include:
 - Grain size**—Boulders, gravel, sand, silt, clay.
 - Hardness**—Loose, soft, tight, hard, very hard.
 - Color**—All materials. Most critical in sedimentary rock.
 - Depth when water is encountered (if it can be determined).
6. Provide the diameters of the drilled bore hole.
7. The outside diameter, kind, wall thickness and interval of casing lengths must be indicated.
8. Indicate the type and size of filter (gravel) pack and the interval where placed.
9. Indicate the type and setting depth for any packers installed.
10. The density of the grout slurry must be reported and may be indicated as pounds per gallon, gallons of water per sack, total gallons of water and number of sacks used, etc. Specify the grout placement method, i.e. tremie pipe or positive displacement. The percentage of additives mixed with the grout should be reported under remarks.
11. Record the type and the amount of disinfection used, how placed and the length of time left in the hole.
12. Report well test data as required by Rule 10.7. Spaces are provided to report all measurements made during the test. The report should show that the test complied with the provisions of the rules. If a test was not performed explain when it will be done. If available, report clock time when measurements were taken.
13. Fill in **Company Name and Address of Contractor** who constructed the well. The report must be signed by the licensed contractor responsible for the construction of the well.

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		161309	
DIV. <u>2</u>	CNTY. <u>21</u>	WD <u>10</u>	DES. BASIN <u> </u> MD <u> </u>

APPLICANT

TERRY J BERTUCCI
8175 MOHAWK RD
COLO SPGS, CO 80908

719/495-9140

Lot: 5 Block: 3 Filing: 2 Subdiv: BAR J-B ACRES

APPROVED WELL LOCATION

COUNTY EL PASO
NE 1/4 NE 1/4 Section 4
Twp 13 S, Range 65 W 6th P.M.

DISTANCES FROM SECTION LINES

440 Ft. from North Section Line
875 Ft. from East Section Line

PERMIT TO CONSTRUCT A WELL

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)(II)(A) as the only well on a residential site of 5.02 acres described as lot 5, block 3, filing 2, Bar J-B Acres Subdivision, El Paso County.
- 4) Approved for a change of water source from that approved under permit no. 160161. The issuance of this permit hereby cancels permit no. 160161.
- 5) The use of ground water from this well is limited to ordinary household purposes inside a single family dwelling and the watering of the user's noncommercial domestic animals. The ground water shall not be used for irrigation or other purposes.
- 6) The total depth of the well shall not exceed 225 feet, which corresponds to the base of the Dawson aquifer.
- 7) The maximum pumping rate shall not exceed 15 GPM.
- 8) The return flow from the use of the well must be through an individual waste water disposal system of the non-evaporative type where the water is returned to the same stream system in which the well is located.
- 9) This well shall be constructed not more than 200 feet from the location specified on this permit.

Note: To insure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

Note: Verbal approval no. 91VE250 was granted on July 3, 1991 to construct this well.

WB. 8/22/91

APPROVED: JWB	<i>John A. Danialson</i> State Engineer	By <i>John W. Bilyly</i>
Receipt No. <u>0327774</u>	DATE ISSUED <u>AUG 23 1991</u>	EXPIRATION DATE <u>AUG 23 1993</u>

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

RECEIVED

JUL 11 '91

PERMIT APPLICATION FORM

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

- A PERMIT TO USE GROUND WATER
- A PERMIT TO CONSTRUCT A WELL
- FOR: A PERMIT TO INSTALL A PUMP

WATER RESOURCES
STATE ENGINEER
COLO.

() REPLACEMENT FOR NO. 160161 Verbal #91VE250
 () OTHER _____
 WATER COURT CASE NO. _____

7030 elev.

62B
60.00
97-11-91CL-27774
CHECKUE

(1) APPLICANT - mailing address
 NAME Terry J Bentucci
 STREET 5175 MOHAWK RD
 CITY CO SPRING CO 80908
(State) (Zip)
 TELEPHONE NO. 719-495-9140

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
 Receipt No. 9227774 91VE250
Auth. Dist. recorded 6/10/59
 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.

(2) LOCATION OF PROPOSED WELL
 County ELPASO
NE $\frac{1}{4}$ of the NE $\frac{1}{4}$, Section 4
 Twp. 13 S, Rng. 65 W, 6th P.M.
(N.S) (E.W)

DB/M mod.
 Special as to:
 4) Approved for a change of water source from spring to the reservoir as this permit...
 reg. number

(3) WATER USE AND WELL DATA
 Proposed maximum pumping rate (gpm) 15
 Average annual amount of ground water to be appropriated (acre-feet): 1
 Number of acres to be irrigated: 0
 Proposed total depth (feet): 200
 Aquifer ground water is to be obtained from:
DAWSON

~~SEE 160161~~

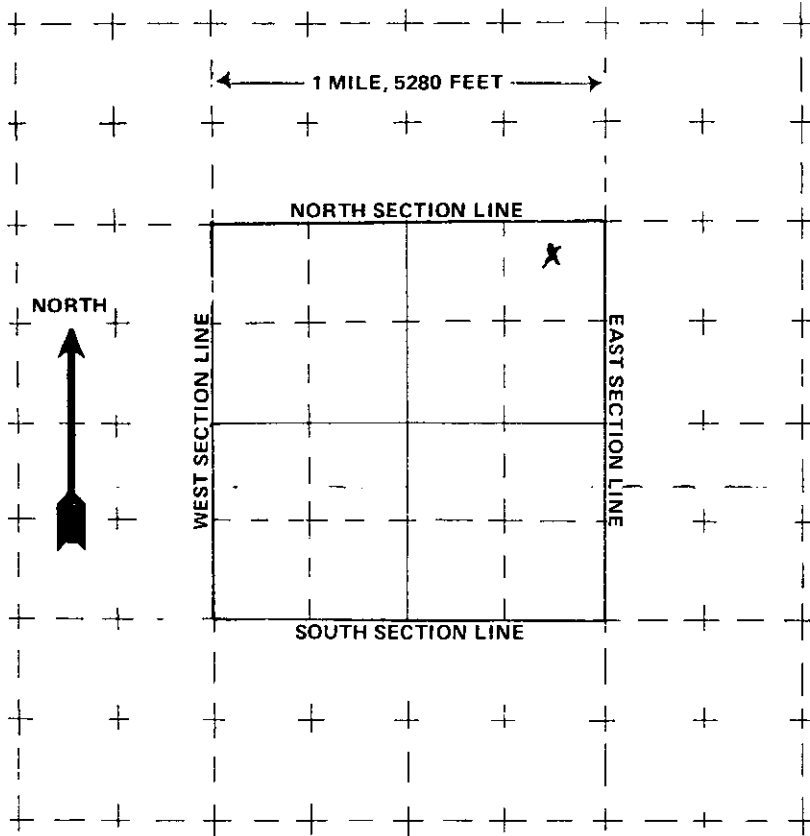
Owner's well designation _____
GROUND WATER TO BE USED FOR:
 HOUSEHOLD USE ONLY - no irrigation (0)
 () DOMESTIC (1) () INDUSTRIAL (5)
 () LIVESTOCK (2) () IRRIGATION (6)
 () COMMERCIAL (4) () MUNICIPAL (8)
 () OTHER (9) _____
 DETAIL THE USE ON BACK IN (11)

APPLICATION APPROVED

(4) DRILLER
 Name RONALD DRILLING + EXC
 Street 23945 LUCKY LN
 City CALHAN CO 80808
(State) (Zip)
 Telephone No. 719-683-3720 Lic. No. 318

PERMIT NUMBER _____
 DATE ISSUED _____
 EXPIRATION DATE _____
 _____ (STATE ENGINEER)
 BY _____
 I.D. 2 COUNTY 21 10

(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.

440 ft. from NORTH sec. line
(north or south)
875 ft. from EAST sec. line
(east or west)

LOT 5 BLOCK 3 FILING # 2
SUBDIVISION BAR J-B ACRES

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Renny Bentucci

No. of acres 5.07 Will this be the only well on this tract? YES

(8) **PROPOSED CASING PROGRAM**

Plain Casing

6 in. from 1 ft. to 19 ft.
4 in. from 7 ft. to 60 ft.

Perforated casing

4 in. from 60 ft. to 200 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): Tenny Bentucci No. of acres: 5
Legal description: NE 1/4 NE 1/4 S4 T133 R65W 6th PM

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

Household
EL PASO County Approved septic system

(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
_____	_____	_____

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

Tenny Bentucci
SIGNATURE OF APPLICANT(S)

EXEMPT WELL DATA SHEET - DENVER BASIN, COLORADO

APPLICANT: BERTUCCI RECEIPT NO. 327774
 LOCATION: NE1/4 OF NE1/4 OF SEC. 4, T.13S., R.65W. (440 NSL, 875 ESL)

PROPOSED AQUIFER:
 SURFACE ELEVATION: 7030 NUMBER OF ACRES IN TRACT: 5.02

 IS PROPERTY WITHIN SERVICE BOUNDARIES OF MUNICIPALITY S.B.5 CONSENT MAPS? NO YES
 IF SUBDIVISION IS UNDER AUGMENTATION PLAN, CASE NO. IS _____, DIV. _____
 IF SUBDIVISION WAS RECOMMENDED FOR APPROVAL BY THE WATER MANAGEMENT BRANCH, DATE OF LETTER IS _____.
 INFORMATION ON SUBDIVISION OR TRACT OF LAND/SPECIAL RESTRICTIONS:

 evaluated by JWB on AUGUST 22, 1991

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	6806	6959	77	224	71	0.763	NNT
LOWER DAWSON	----	----	----	----	----	----	---
DENVER	5898	6761	313	1132	269	2.671	NNT
UPPER ARAPAHOE	5353	5858	229	1677	1172	1.954	NNT
LOWER ARAPAHOE	----	----	----	----	----	----	---
LARAMIE-FOX HILLS	4788	5072	188	2242	1958	1.416	NT

note: E indicates location is at aquifer boundary and values may be more approximate.
 * indicates the proposed aquifer.

All values are interpolated from the S.B.5 data base assembled in November of 1986.

Office of the State Engineer
Division of Water Resources
Ground Water Section

1778 file c# ~~325123~~

ID 2-10 CTY 21

Basin _____ MD _____

TAKEN BY RAC NAME OF CALLER Tim Kunau DATE 7-3-91

APPLICANT Bertucci, Tenny CONTRACTOR Kunau

ADDRESS 8175 Mohawk LIC # 318 PHONE (719) 683-3720

Colo Spa. 80908 EXISTING PERMIT # 160161

PHONE (719) 495-9140 (H) (O) CASE# _____ USE Down

APPLICATION RECEIPT DATE _____ CTY El Paso DIST 10

LOCATION NE 1/4 NE 1/4, SEC 4 TWP 13S RNG (6SW) PM 6

DIST FROM SEC LINES 440 (N)(S) 875 (E)(W) [REQ FOR DB & Kd/Kc]

LOT 5 BLOCK 3 FILING 2 SUBDIVISION Bar J-B Acres

DIST & DIREC FROM OLD WELL on hole DEPTH OF OLD WELL 100' now are at

PROPOSED: DEPTH 100', CASING PLAIN PERF new 60 → 200, AQUIFER Dawson

REASON FOR EMERGENCY on hole DATE TO START ASAP

COMMENTS: want to complete in ~~45~~ ^{Dawson} 60 days

FIELD INSP REQ? (Y) (N) DONE? (Y) (N) BY? _____ DATE REC _____
(NOTE: ATTACH COPY OF WRITTEN REPORT OR VERBAL REPORT)

DWR STAFF RECOMMENDATIONS new app. + \$60 fee w/i 10 days; T.P. not to exceed 225 ft. (base of Dawson); verbal approval expires in 60 days.

VERBAL APPROVED BY B.E. D'Brine DATE 7-3-91 BY JWB 7/3/91

CONDITIONS Comply with staff recommendations.

VERBAL GIVEN TO Tim Kunau BY JWB DATE 7/3/91 @ 1:45 P.M.
Lic. # 1148

OFFICE OF THE STATE ENGINEER
VERBAL FIELD INSPECTION REPORT

APPLICANT _____

RPT TAKEN BY _____ DATE _____ APPL. RECEIPT NO. (If known) _____

INSPECTED BY _____ DATE _____ DIST _____ REPORTED BY _____

WELL LOCATION _____ 1/4 _____ 1/4, SEC _____, TWP _____ RNG _____ DIST'S _____

UNREGISTERED EXEMPT WELLS

USE OF EXISTING WELL

- () # OF SINGLE FAMILY DWELLINGS? _____
- () WATERING DOMESTIC ANIMALS AND POULTRY _____
- () WATERING LIVESTOCK ON A FARM OR RANCH, # OF HEAD? _____
- () IRRIGATION OF _____ SQUARE FEET OF HOME GARDENS AND LAWNS
- () FIRE PROTECTION _____
- () DRINKING AND SANITARY IN COMMERCIAL BUSINESS, DETAILS OF BUSINESS? _____

DATE WELL CONSTRUCTED? _____ EST. PUMPING RATE _____

DATE FIRST USE FOR ABOVE PURPOSES _____ DEPTH OF WELL _____

TYPE OF WELL: DRILLED _____ HAND DUG _____ DEVELOPED SPRING _____

NO. OF ACRES IN TRACT? _____, ANY OTHER WELLS ON PARCEL? _____, #'S _____
USED FOR _____

NONEXEMPT WELLS

OLD WELL PERMIT NO. _____ CASE NO. _____

ACRES IRRIGATED _____ LEGAL DESCRIPTION _____

AUGMENTATION PLAN NAME OR CASE # _____

USES OTHER THAN IRRIGATION _____

ARE THERE OTHER WELLS WITHIN 600 FEET? _____ WILL THE REPLACEMENT BE
CLOSER TO WELLS WITHIN 600 FEET THAN BEFORE? _____ IS THE REPL BEING
MOVE MORE THAN 200 FT? _____ WHY _____

OTHER WELLS USED FOR THE SAME PURPOSE? _____ PERMIT #'S _____

SURFACE WATER RIGHTS USED IN CONJUNCTION WITH THIS WELL _____

COMMENTS

NOTE: A WRITTEN REPORT MUST BE SUBMITTED