



June 19, 2024

Ryan Howser
El Paso County – Planning and Community Development Department
2880 International Circle, Suite 110
Colorado Springs, CO 80910

Dear Mr. Howser:

**RE: 6-Lot Development for property at 3405 Hay Creek Road
El Paso County Parcel #7133007025
Finding of Sufficient Water Quality According to Section 8.4.7.B.10(a) of the Amended El
Paso County Land Development Code (LDC-19-007)**

FINDING OF SUFFICIENT WATER QUALITY

Jamie Hull owns approximately 30.05 acres on the above-described property, located at 3405 Hay Creek Road, Colorado Springs, CO, 80921 (EPC Receipt No.: 7133007025). Mr. Hull wishes to subdivide the 30.05 acres into six (6) lots through the El Paso County Land Development and Planning process. As part of the subdivision process Tecton Corporation has prepared a Water Resources report to support sufficient water quantity over a 300-year evaluation period, pursuant to Amended Decree 01CW21 . The water resources report supports sufficient quantity but no sufficient quality according to Section 8.4.7.B.10(a) of the Amended El Paso County Land Development Code. Mr. Hull subsequently reached out to RESPEC Company, LLC to complete water quality sufficiency sampling and analysis according to the aforementioned section of the Code and provide an engineering opinion of the analysis.

Section 8.4.7.B.10(a) in the Amended El Paso County Land Development Code (EPC-LDC) requires that the applicant obtain analyses results for twenty-one (21) Volatile Organic Chemical (VOC) Contaminants, twenty-nine (29) Synthetic Organic Chemical Contaminants (SOC), fourteen (14) Inorganic Chemicals, ten (10) Secondary Maximum Contaminants, indicators of bacteriological pathogens (i.e. E. coli), inorganic anions, and two (2) radionuclides. According to Case No. 01CW21, which is included in the Water Resources Report, the proposed six (6) lot subdivision will be supplied with water from the underlying not-nontributary Dawson and Denver formations, both of which are considered confined Denver Basin Aquifers. Therefore, according to paragraph two (2) from Section 8.4.7.B.10(a) VOCs and SOCs are not required as part of the stipulated chemical analysis.

On May 13, 2024, representatives with RESPEC Company, LLC sampled existing Denver and Dawson aquifer wells located on and adjacent to the existing property at 3405 Hay Creek Road. The representative Denver aquifer well is located on the existing property and is permitted under Permit No. 163509-F (see attached). The representative Dawson well is located next door at address 3255 Hay Creek and is permitted under Permit No. 5876-F (see attached). Well samples for both wells were taken on the 13th of May and overnighted to Colorado Analytical Laboratories to meet specified holding times for certain constituents. Results from all chemical analyses were received by RESPEC via email on June 19, 2024. Results were tabulated and compared vs. primary and secondary Maximum Contaminant Limits as established by the Colorado Department of Public Health and Environment's

2700 GAMBELL STREET
SUITE 500
ANCHORAGE, AK 99503
907.743.3200



(CDPHE) latest drinking water standards. From the evaluation, both wells were found to be high in Combined Radium 226+228, which was above the MCL of 5 PCi/L. (Please see tabulated results and associated analytical results from Colorado Analytical Laboratories in the enclosure.) All other constituents were found to be below respective primary and secondary drinking standards, though the representative Dawson Well was found to be just below the MCL for Gross Alpha / Beta.

As mentioned above, the raw water sampled in both the representative Dawson and Denver Wells were found to contain Combined Radium 226+228 which exceeded the State of Colorado's Primary Maximum Drinking Water Standard (MCL). Combined radium can be a byproduct of the presence of uranium, and can be considered a chronic contaminant. This means that it is unlikely that there will be immediate harm to individuals who are immediately exposed to the presence of radium. However, over time, continued exposure to uranium can have detrimental impacts on humans, including the occurrence of certain forms of cancer (especially bone cancer), anemia, cataracts, and fractured teeth.

Given the levels of Combined Radium observed in each well, the RESPEC Company, LLC would recommend the installation of a whole house Reverse Osmosis unit in each residence to remove the elevated levels of radium from the source water. It should be noted that the reverse osmosis unit will generate a concentrated backflow that can be wasted to the existing septic system. Given the relatively small amounts of concentrated constituents generated by a single residence reverse osmosis unit, the existing on-site septic system for each household should have the capacity to sufficiently treat the generated wastewater loadings.

After reviewing the analytical results, RESPEC Company, LLC does not find cause for concern in utilizing the underlying Denver and Dawson Aquifers for public consumption or irrigation uses within the proposed subdivision. However, RESPEC would also recommend that the developer and home builder provide a whole-house RO unit for each household to remove observed Combined Radium 226+228 from the source water. The above opinions are RESPEC's recommendations for additional treatment within the proposed residences to bring the source water into compliance with established Colorado Drinking Water Standards.

Should the El Paso County Planning and Development Department have any additional comments, questions, or concerns please do not hesitate to contact Douglas E. Schwenke, P.E. with RESPEC Company, LLC at 719-402-0009 Ext. 1447 or at Douglas.schwenke@respec.com.

Sincerely,

Douglas E Schwenke

Douglas E. Schwenke, P.E.
Principal Engineer

DES

Enclosure: DWR Permit No. 163509-F
DWR Permit No. 5876-F
Tabulated Water Quality Sufficiency Results from May 13, 2024 Sample Trip to 3405 and 3255 Hay Creek Road
Analytical Results from Colorado Analytical, Task No.: 240523003 – Langoliers
Analytical Results from Colorado Analytical, Task No.: 240523003 – Chemical Constituents
Analytical Report from Haxen, Task No.: 24H01988 – Radiological

cc: Project Central File: W0265.24027.001 — Category: External Letter

FEB 10 '92

PERMIT APPLICATION FORM

RECEIVED

WATER RESOURCES
STATE ENGINEER
COLO.

162504
94
m/2
E.H.L.
SIM

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

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

RECEIVED DEC 16 '91

- () REPLACEMENT FOR NO. MAR 23 '92
- () OTHER _____

WATER RESOURCES
STATE ENGINEER
COLO.

WATER COURT CASE NO. WATER RESOURCES STATE ENGINEER COLO.

6955 elev.

(1) **APPLICANT** - mailing address

NAME George & Alyce Arnold

STREET 14300 Chenal Parkway #7482

CITY Little Rock, Arkansas 72211
(State) (Zip)

TELEPHONE NO. (501) 225-9737

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 333218

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.

DA/E
3 hours

4000 - part of 5' ...
part ...

(2) **LOCATION OF PROPOSED WELL**

County El Paso

NW 1/4 of the SE 1/4, Section 33

Twp. 11 S, Rng. 67 W, 6th P.M.
(N,S) (E,W)

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

Proposed maximum pumping rate (gpm) 15 GPM

2/5/92 Average annual amount of ground water to be appropriated (acre-feet): 3 1/2 acre foot feet

2/5/92 Number of acres to be irrigated: 1

2/5/92 Proposed total depth (feet): 950 875

2/5/92 Aquifer ground water is to be obtained from: Denver

Owner's well designation _____

GROUND WATER TO BE USED FOR:

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

DETAIL THE USE ON BACK IN (11)

(4) **DRILLER**

Name Paul Fletcher & Sons

Street 797 Hwy. 105

City Palmer Lake, Colorado 80133
(State) (Zip)

Telephone No. 481-2600 Lic. No. 797

Best Copy Available

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

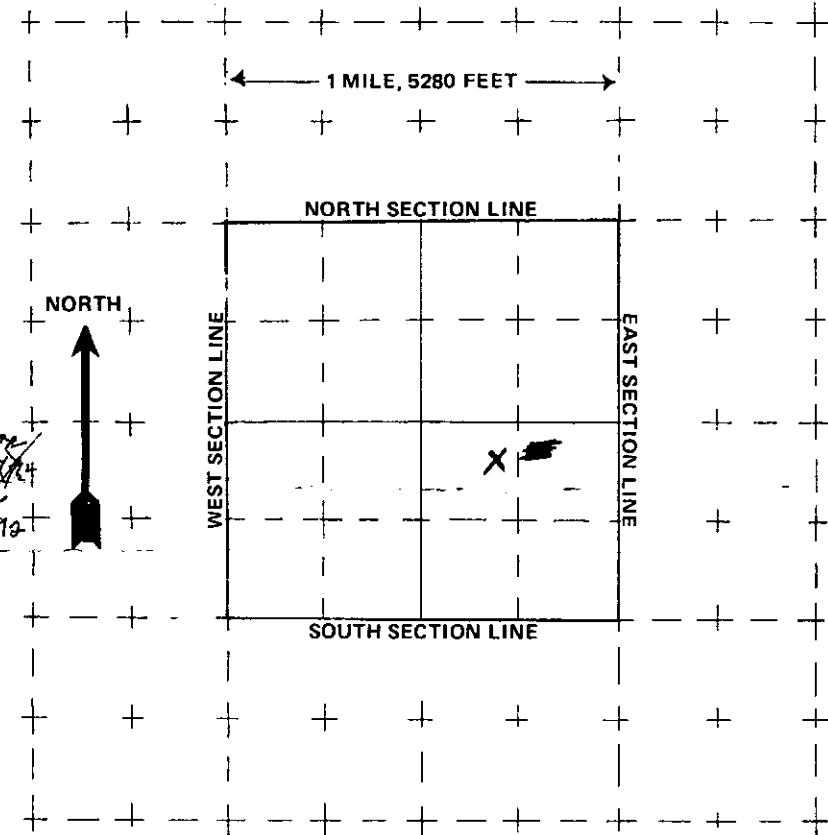
EXPIRATION DATE _____

(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.

2300
~~1919~~ ft. from South sec. line
(north or south)
1400
~~800~~ ft. from East sec. line
(east or west)

LOT N/A BLOCK N/A FILING # N/A
SUBDIVISION N/A

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

No. of acres 30 40. Will this be the only well on this tract? yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing 325
4" in. from 0 ft. to 100 ft.
4" in. from 855 ft. to 875 ft.
Perforated casing 325 855
4" in. from 930 ft. to 950 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): Arnold No. of acres: 30 40
Legal description: Lengthy - see attached 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.
Household Family uses watering of lawn and garden, non commercial livestock, county approved septic and leach field (Closed system), to serve up to three (3) single family dwellings.

(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
<u>none</u>		

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

George M Arnold, Alyce B. Arnold
SIGNATURE OF APPLICANT(S)

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

For Office Use only

RECEIVED
JUN 10 '92

WATER RESOURCES
STATE ENGINEER
COLORADO

1. WELL PERMIT NUMBER 163509

2. OWNER NAME(S) Richard Dudding
Mailing Address 1383 Windmill Avenue
City, St. Zip Colo Spgs, CO 80907
Phone (719) 598-2235

3. WELL LOCATION AS DRILLED: NW 1/4 SE 1/4, Sec. 33 Twp. 11 S, Range 67 W
DISTANCES FROM SEC. LINES:
2300' ft. from South Sec. line. and 1400 ft. from East Sec. line. OR
(north or south) (east or west)
SUBDIVISION: _____ LOT _____ BLOCK _____ FILING(UNIT) _____
STREET ADDRESS AT WELL LOCATION: _____

4. GROUND SURFACE ELEVATION unknown ft. DRILLING METHOD Rotary
DATE COMPLETED May 22, 1992 TOTAL DEPTH 430 ft. DEPTH COMPLETED 430 ft.

5. GEOLOGIC LOG:

Depth	Description of Material (Type, Size, Color, Water Location)
0-1	Topsoil
1-7	Sand & gravel
7-52	Sand & grav. m/w tan & brown clays
52-67	Sand & grav. m/w gray clay
67-84	Sand & grav. m/w tan clay
84-112	Sand & grav. sandstone strgrs at 97-99'
112-131	Quartz gravel
131-145	Brown clay
145-175	Quartz grav. sandstone strgrs at 172-174' X
175-352	Quartz grav. m/w sandy tan & brown clays
352-424	Quartz gravel (loose) X
424-430	Quartz grav. w/s tan clay & sandstone

REMARKS: _____

6. HOLE DIAM. (in.) From (ft) To (ft)

8"	0-	19
6"	19	430

7. PLAIN CASING

OD (in)	Kind	Wall Size	From(ft)	To(ft)
6"	Steel	1.88	+1	19
4"	PVC	.200	6	350
PERF. CASING: Screen Slot Size:				
4"	PVC	.030	350	430

8. FILTER PACK:
Material Quartz
Size 8-12
Interval 350-430

9. PACKER PLACEMENT:
Type _____
Depth _____

10. GROUTING RECORD:

Material	Amount	Density	Interval	Placement
Cement	230	14	0-19	pumped
Enviroplug	50	10.2	19-150	tremie

11. DISINFECTION: Type HTH Powder Amt. Used 1 1/2 cups

12. WELL TEST DATA: Check box if Test Data is submitted on Supplemental Form.
TESTING METHOD Blown by air
Static Level 300' ft. Date/Time measured 5-22-92 P.M., Production Rate 12 gpm.
Pumping level 380' ft. Date/Time measured 5-22-92 P.M., Test length (hrs.) 4
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 PAUL FLETCHER & SONS, INC Phone (719) 481-3589 Lic. No. 797
Mailing Address 797 Hwy 105 Palmer Lake, CO 80133

Name/Title (Please type or print) Thomas Fletcher/Vice Pres.	Signature <i>Thomas Fletcher</i>	Date 5-25-92
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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 **163509**
DIV. 2 CNTY. 21 WD 10 DES. BASIN MD

APPLICANT

Lot: Block: Filing: Subdiv:

APPROVED WELL LOCATION

COUNTY EL PASO
NW 1/4 SE 1/4 Section 33
Twp 11 S, Range 67 W 6th P.M.

GEORGE & ALYCE ARNOLD
14300 CHENAL PKWY #7482
LITTLE ROCK, AR 72211

501/225-9737

DISTANCES FROM SECTION LINES

2300 Ft. from South Section Line
1400 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 tract of land of 40 acres described as that portion of the SE 1/4 of Sec. 33, Twp. 11S, Rng. 67W, 6th P.M., El Paso County, being more particularly described on the attached exhibit "A".
- 4) The use of ground water from this well is limited to ordinary household purposes inside three single family dwellings, fire protection, the watering of poultry, domestic animals, and livestock on farms and ranches, and the irrigation of not over one acre of home gardens and lawns.
- 5) Production from this well is restricted to the Denver aquifer which corresponds to the interval between 340 feet and 885 feet below ground surface. Plain casing shall be installed and sealed to prevent production from other zones.
- 6) The maximum pumping rate shall not exceed 15 GPM.
- 7) 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.
- 8) 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.

JWB. 4/2/92

APPROVED:
JWB

Hal D. Simpson
State Engineer (Acting)

John W. Bilynsky
By

Receipt No. 0333218

DATE ISSUED APR 03 1992

EXPIRATION DATE APR 03 1994

EXEMPT WELL DATA SHEET - DENVER BASIN, COLORADO

APPLICANT: ARNOLD RECEIPT NO. 333218
 LOCATION: NW1/4 OF SE1/4 OF SEC. 33, T.11S., R.67W. (2300 SSL, 1400 ESL)

PROPOSED AQUIFER:
 SURFACE ELEVATION: 6955 NUMBER OF ACRES IN TRACT: 40

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 FEBRUARY 20, 1992

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	6692	6850	60	263	105	4.800 E	NNT
LOWER DAWSON							
DENVER	6072	6617	220	883	338	14.892	NNT
UPPER ARAPAHOE	5563	6002	347	1392	953	23.596	NT
LOWER ARAPAHOE							
LARAMIE-FOX HILLS	5057	5363	181	1898	1592	10.860	NT

Handwritten notes: "of per map" above ELEVATION; "good per map" above NET SAND; "actual affects area (Hay Cr.)" next to DENVER status.

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.

Other well research:

WF #69920? ✓ net on Arnold property per field inspection by Becky Nichols

WR 84CW16 (#69920) ✓

CWCB ✓

- # 691 — SE 33; Const. 4/6/56; T.D. 101'; dom. use
- # 718 — SE SE 33; Const. 10/11/55; T.D. 50'; stock use

Best Copy Available

APPLICANT: GEO. + ALYCE
ARNOLD

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REC.# 333218
EXHIBIT "A"
PAGE 1 OF 2

FEB 10 '92

WATER RESOURCES
STATE ENGINEER
COLO.

TRACT IN SE4 SEC 33-11-67 AS FOLS. COM AT E4 COR OF SD SEC. TH S 89
(40'40" W 750.0 FT FOR POB, TH S 01 (09' 45" W 1244.54 FT. S 80 (33' W
146.26 FT, S 68 (03' W 197.10 FT. N 81 (05' W 209.10 FT. S 78 (41' W
298.40 FT, N 84 (17' W 167.75 FT., N 01 (09' 45" E 1346.12 FT., TH N
89 (40' 40" E 991.14 FT. TO POB - SUBJECT TO EXISTING ROAD - TOG WITH
R/W BY BK 3465-937; and

THAT PART OF SE4 SEC 33-11-67 COM AT E4 COR OF SD SEC, TH S 89(40'40" W 1741.14 FT
FOR POB, S 01(09' 45" W 1346.12 FT. N 84(17' W 28.64 FT. S 72(16' W 302.40 FT,
N 01(09'45" E PARA TO E LN 1433.63 FT. TH N 89(40'40" E 314.75 FT TO POB, TOG
WITH R/W BY BK 3465-937.

RECEIVED

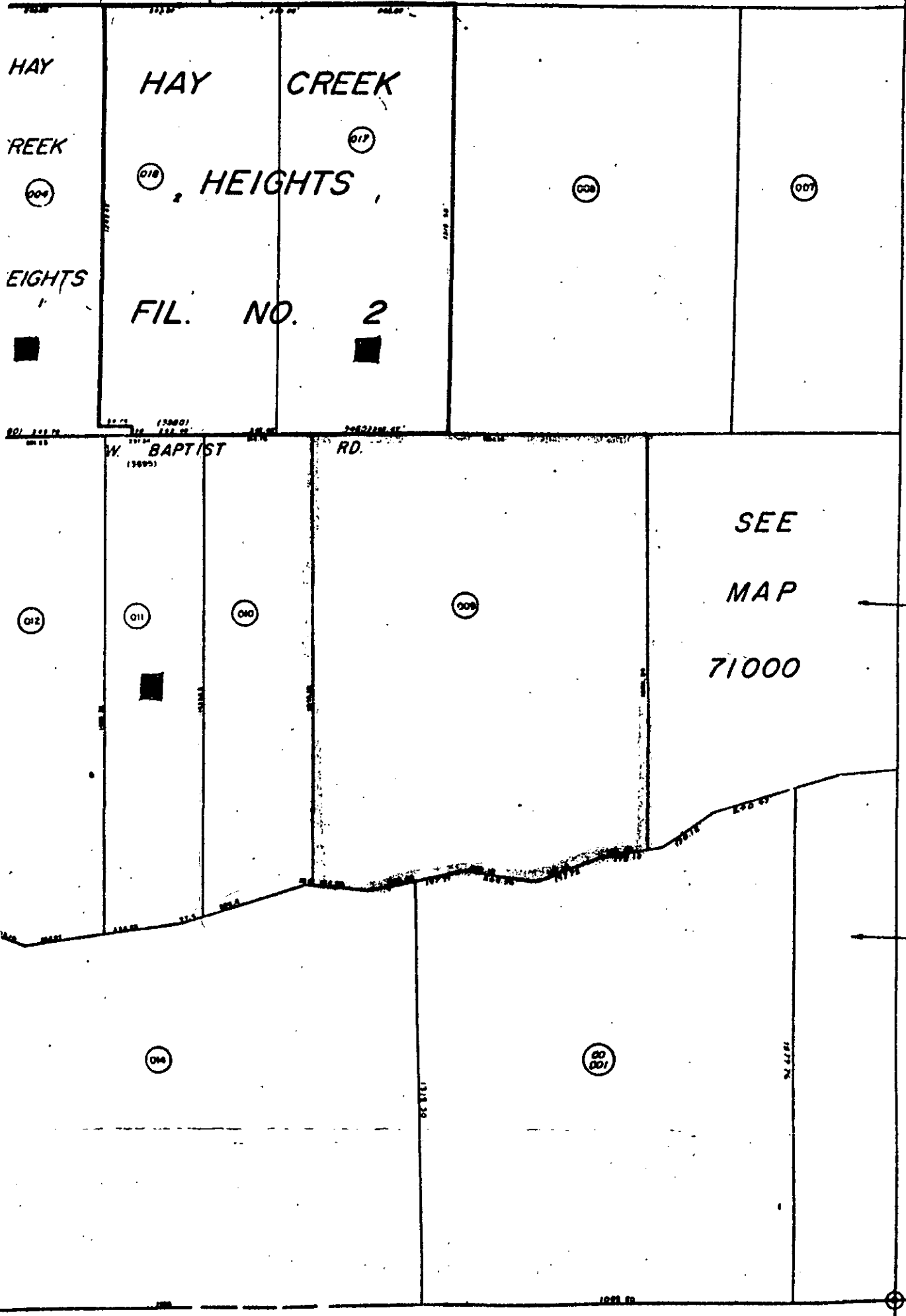
APPLICANT: GEO. & ALYCE
ARNOLD

FEB 10 '92

REC. # 333218
EXHIBIT "A"

FOR RESOURCES
ENGINEER
COLO.

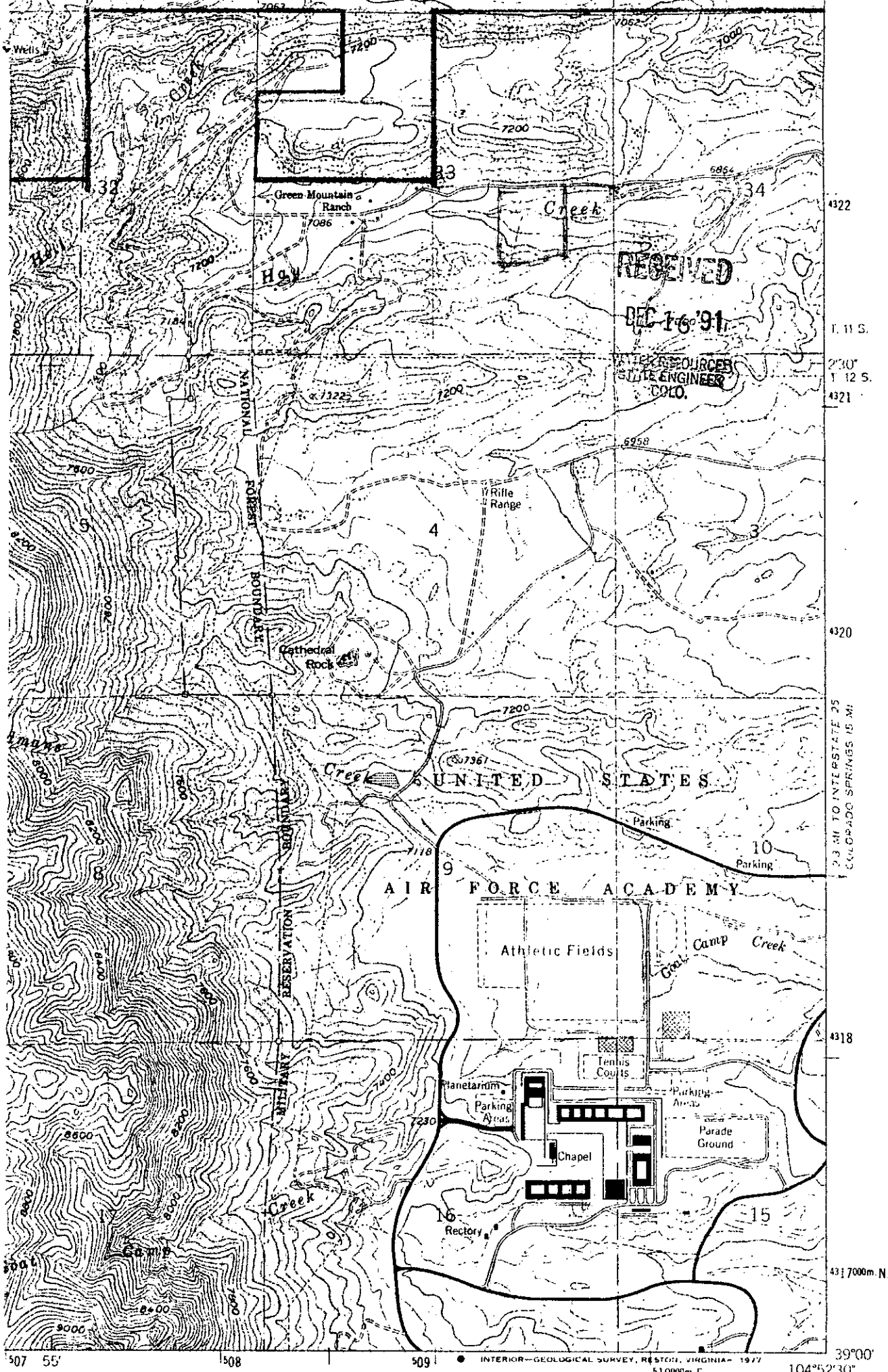
PAGE 2 OF 2



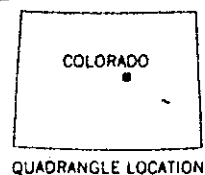
ADJOINING 71000

SEE
MAP
71000

71330 1824



Best Copy Available



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
State Route	

Location Map
See Tax Map
attached

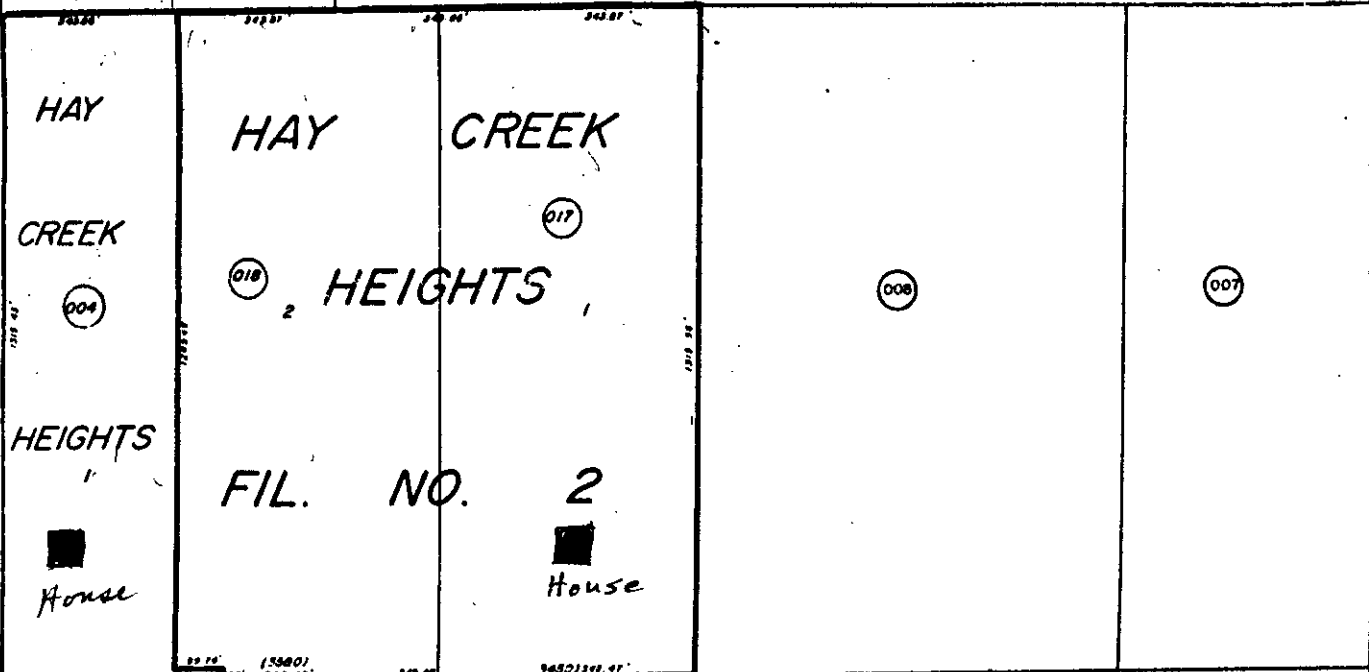
PALMER LAKE, COLO.
 N3900 - W10452.5/7.5
 1961
 PHOTOREVISED 1969 AND 1975
 AMS 5062 III SW - SERIES V877

(PIKEVIEW)
 5061 III NE

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DEC 16 '91

WATER RESOURCES
STATE ENGINEER
COLO.



HAY CREEK

CREEK

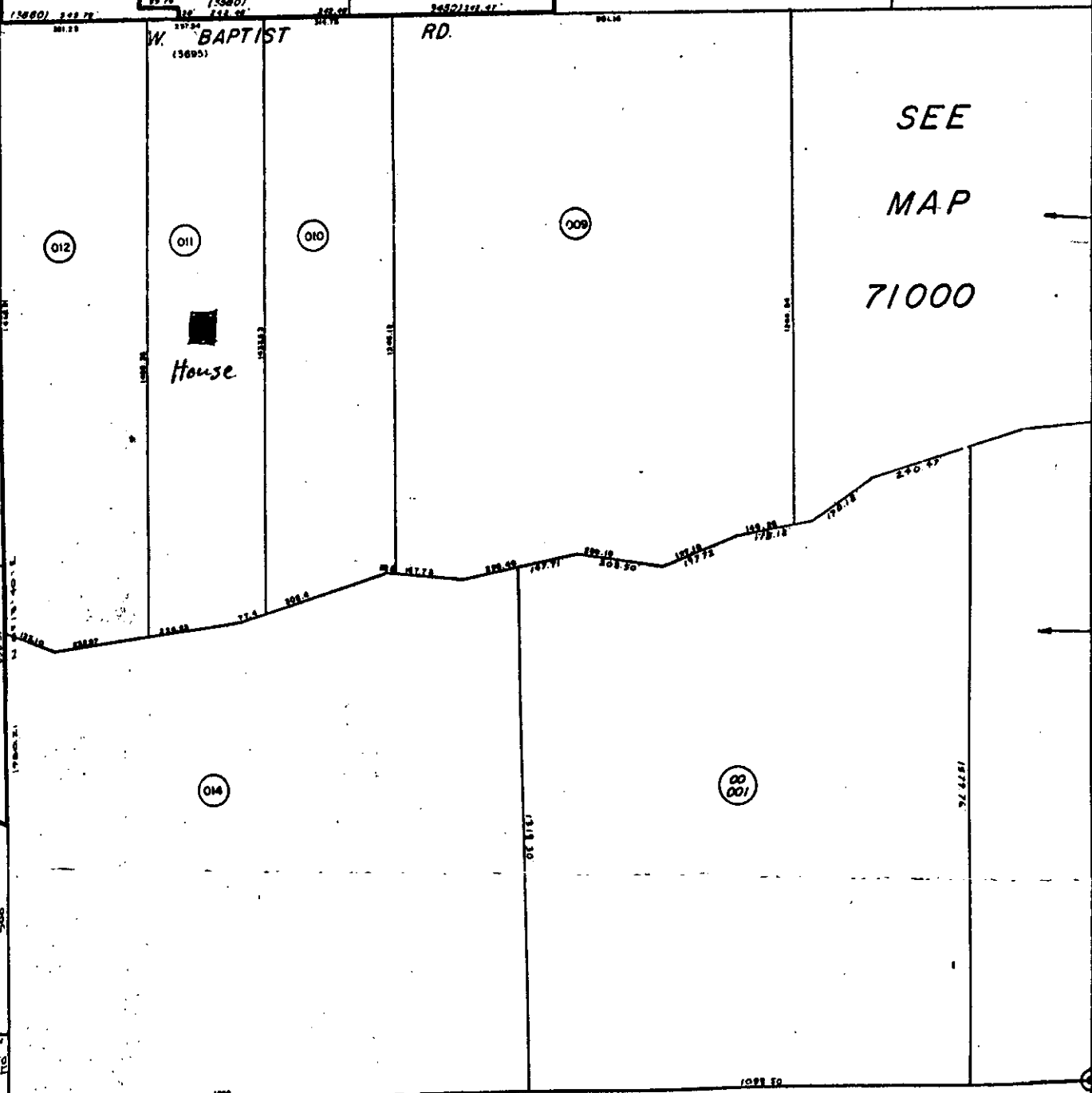
HEIGHTS

House

HEIGHTS

FIL. NO. 2

House



W. BAPTIST RD.

House

SEE
MAP
71000

ADJOINING 71000

71330 1824

14300 Chenal Parkway, #7482
Little Rock, Arkansas 72211
December 10, 1991

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DEC 16 '91

WATER RESOURCES
STATE ENGINEER
COLO.

Colorado Division of Water Resources
1313 Sherman Street
Denver, CO 80203

Dear Sirs:

Enclosed is a request for a well permit on 30 acres we own just north of the Air Force Academy along W. Baptist Road in El Paso County, Colorado. We have owned this property since 1979 and have finally decided to sell it because we need the money, are in ill health and have become elderly. Unfortunately I have Parkinson's Disease and am relegated to a wheelchair and my wife also has a serious disease; consequently we feel we must sell this property, and we need the money.

Our agent, J. T. Anderson of the Rawhide Company, Realtors in Colorado Springs, has brought us a contract contingent upon obtaining approval of a domestic well at a depth not to exceed 600 ft. If the well permit comes in with approval at a depth which would require drilling deeper than 600 ft., the purchasers may back out of the contract. The well permit is made out for the approximate depth of the Denver aquifer at 950 ft. but we are hopeful that water can be drawn from some depth prior to the 600 ft. level even if perhaps the total depth of the well must be lower than 600 ft.

Mr. Anderson has told us of the current restrictions on domestic wells which have been enforced since about 1985 and we are concerned that we might not be able to obtain the kind of well we need even on a 30 acre parcel.

Enclosed are maps showing the exact location of this property as well as the history of its title since 1969 showing that the parcel has been in existence as 30 acres since that time or before.

We are not knowledgeable in the matter of water wells and water laws but it appears that most of the lots in the vicinity are large acreage. There are several homes as shown on the tax map, all of which have approved domestic wells. We would very much appreciate it if you would approve one more which would enable us to make this sale and relieve our financial pressure.

If you want further information, please call Mr. Anderson, my agent at 719-495-2281 or his Broker, Kenneth H. Barber at 719-598-3198 who will be familiar with the situation. If it is simply not possible to approve this well, would you please tell us what our alternatives might be.

Sincerely,

George and Alyce Arnold

George and Alyce Arnold

Encl: #60 check

RECEIVED

DEC 16 '91

WATER RESOURCES
STATE ENGINEER

TRACT IN SE4 SEC 33-11-67 AS FOLS. COM AT E4 COR OF SD SEC. THCS.089
(40'40" W 750.0 FT FOR POB, TH S 01 (09' 45" W 1244.54 FT. S 80 (33' W
146.26 FT, S 68 (03' W 197.10 FT. N 81 (05' W 209.10 FT. S 78 (41' W
298.40 FT., N 84 (17' W 167.75 FT., N 01 (09' 45" E 1346.12 FT., TH N
89 (40' 40" E 991.14 FT. TO POB - SUBJECT TO EXISTING ROAD - TOG WITH
R/W BY BK 3465-937.

JUL 13 1979

BOOK 3201 PAGE 166

Filed for record the _____ day of _____ A.D. 19 _____

575837

ARDIS W. SCHMITT

RECORDER

State of Colorado
County of El Paso

Warranty Deed

Deputy

RECEIVED

KNOW ALL MEN BY THESE PRESENTS, That
 Patricia Berthrong, a/k/a Patricia K. Berthrong
 of the County of El Paso and State of Colorado
 consideration of one hundred dollars and other good and valuable considerations for the
 (\$ _____) dollars in hand paid hereby sell and convey to
 George H. Arnold and Alyce B. Arnold
 whose legal address is (including road or street address if applicable)
 4115 Lupine, Colorado Springs, Colorado 80907
 in Joint Tenancy of the County of El Paso and State of Colorado
 the following Real Property situated in the County of El Paso
 and State of Colorado, to wit:

REC 16 '91

WATER RESOURCES
STATE ENGINEER
COLO.

PARCEL A

That portion of the Southeast Quarter of Section 33; Township 11 South, Range 67 West of the 6th P.M., commencing at the East Quarter corner of said Section 33, thence South 89°40'40" West 1741.14 feet to the point of beginning; thence South 1°09'45" West 1346.12 feet; thence North 84°17' West 28.64 feet; thence South 72°16' West 302.40 feet; thence North 1°09'45" East parallel to the East line 1433.63 feet; thence North 89°40'40" East 314.75 feet to the point of beginning, El Paso County, Colorado.

PARCEL B

That portion of the Southeast Quarter of Section 33; Township 11 South, Range 67 West of the 6th P.M., commencing at the East Quarter corner of said Section 33, thence South 89°40'40" West 750 feet to the point of beginning, thence South 1°09'45" West 1244.54 feet; thence South 80°33' West 146.26 feet; thence South 88°03' West 197.10 feet; thence North 81°05' West 209.10 feet; thence South 78°41' West 298.40 feet; thence North 84°17' West 167.75 feet; thence North 1°09'45" East parallel to the East line 1346.12 feet; thence North 89°40'40" East 991.14 feet to the point of beginning, El Paso County, Colorado,
 with all its appurtenances and warrant(s) the title to the same, subject to the 1979 general taxes, all subsequent general and special taxes, and all covenants, easements, restrictions of record, including a roadway over and across the above described premises, used for ingress and egress, as set forth in deed recorded in Book 2130 at page 515 of the records of the El Paso County Colorado Clerk and Recorder.

Signed and Delivered this 10th day of July, 1979.

Patricia Berthrong
Patricia Berthrong

STATE DOCUMENTARY

JUL 13 1979

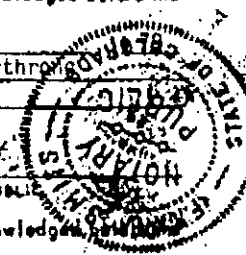
FEE \$10.00

Patricia K. Berthrong
a/k/a Patricia K. Berthrong

STATE OF Colorado } SS The foregoing instrument was acknowledged before me
 County of El Paso }
 this 10th day of July
 by Patricia Berthrong, a/k/a Patricia K. Berthrong

Witness my hand and official seal.
My commission expires 1/26/83

Frank Smith
NOTARY PUBLIC



STATE OF _____ } SS The foregoing instrument was acknowledged
 County of _____ }
 this _____ day of _____ 19____
 by _____ as _____ President
 and _____ as _____ Secretary of
 _____ a corporation.

Witness my hand and official seal.
My commission expires _____

NOTARY PUBLIC

Best Copy Available

10
Ac

DF
10.00

30
Acres

02 -
30.00
do. 05
+ 10.00
= 40.00

Evidence of
Division prior
to 6/11/79, of
ownership by
REC 16 '91

MAY 1 1972

BOOK 2485 PAGE 743

340 P

for record the day of 882186

HARRIET RECEIVED

Best Copy Available

Warranty Deed

(STATUTORY FORM)

DEC 16 '91

WATER RESOURCES
STATE ENGINEER
COLO.

Know all Men by these Presents, That MORGAN BERTHRONG

of the County of El Paso and State of Colorado, for the consideration of One Dollar and other good and valuable considerations, in hand paid, hereby sell and convey to PATRICIA K. BERTHRONG

of the County of El Paso and State of Colorado, the following Real Property situate in the County of El Paso and State of Colorado, to-wit:

30A

ok.
WB. 4/10/92

That portion of the Southeast Quarter of Section 33, Township 11 South, Range 67 West of the 6th P.M., commencing at the East Quarter corner of said Section 33, thence South 89° 40' 40" West 750 feet to the point of beginning, thence South 1° 09' 45" West 1244.54 feet; thence South 80° 33' West 146.26 feet; thence South 68° 03' West 197.10 feet; thence North 81° 05' West 209.10 feet; thence South 78° 41' West 298.40 feet; thence North 84° 17' West 167.75 feet; thence North 1° 09' 45" East parallel to the East line 1346.12 feet; thence North 89° 40' 40" East 991.14 feet to the point of beginning, subject to a presently existing roadway over and across said with all its appurtenances and warrant the title to the same. Southeast Quarter and used for egress and ingress to properties lying Westerly of described tract and all other existing recorded right of ways. Said described tract contains 30.000 acres, more or less; With all its appurtenances and warrants title to the same.

Subject to encumbrances, 1972 ad valorem taxes, restrictions, reservations and rights of way of record if any

Signed and delivered this 1st day of March, 1972

Morgan Berthrong
MORGAN BERTHRONG

STATE DOCUMENTARY

MAY 1 1972

FEE \$ *none*

STATE OF Colorado }
County of El Paso } ss
this 1st day of March, 1972
by MORGAN BERTHRONG

STATUTORY ACKNOWLEDGMENT

The foregoing instrument was acknowledged before me this 1st day of March, 1972 by MORGAN BERTHRONG

Witness my hand and official seal.
My commission expires

William H. Foster
Notary Public NOTARY PUBLIC

STATE OF _____ }
County of _____ } ss

The foregoing instrument was acknowledged before me

this _____ day of _____ 19____
by _____ as _____
and _____ as _____ of _____

Witness my hand and official seal.
My commission expires



8000 RECEIVED
RECORDED
DEC 16 '91
WATER RESOURCES
STATE ENGINEER
COLO.

Warranty Deed

Best Copy Available

Know all Men by these Presents, That VERNE P. COLLIER
of the County of El Paso and State of Colorado for the
consideration of One Dollar and other good and valuable considerations, in hand paid, hereby sell and
convey to MORGAN BERTHONG

of the County of El Paso and State of Colorado the
following Real Property situate in the County of El Paso and State of
Colorado, to-wit:

30Ac

That portion of the Southeast Quarter of Section 33,
Township 11 South, Range 67 West of the 6th P.M.,
commencing at the East Quarter corner of said Section
33, thence South 89° 40' 40" West 750 feet to the
point of beginning, thence South 1° 09' 45" West
1244.54 feet; thence South 80° 33' West 146.26
feet; thence South 68° 03' West 197.10 feet; thence
North 81° 05' West 209.10 feet; thence South 78°
41' West 298.40 feet; thence North 84° 17' West
167.75 feet; thence North 1° 09' 45" East parallel to
the East line 1346.12 feet; thence North 89° 40' 40" East
991.14 feet to the point of beginning., subject to
a presently existing roadway over and across said
Southeast Quarter and used for egress and ingress to
properties lying westerly of described tract and all
other existing recorded right of ways. Said described
tract contains 30,000 acres, more or less;

with all its appurtenances and warrant(s) the title to the same, subject to

Signed and delivered this Sixteenth day of November, 1968.

Vern P. Collier

STATE OF Colorado)
County of El Paso) ss. The foregoing instrument was acknowledged before me
this Sixteenth day of November, 1968
by Verne P. Collier



My commission expires Jan. 20, 1971

Charlotte E. Brotny
Notary Public

) ss. The foregoing instrument was acknowledged before me
this _____ day of _____, 19____
by _____ as _____
and _____ as _____ Secretary of
a corporation

Witness my hand and official seal.
My commission expires _____





OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581
FAX [303] 866-3589
January 10, 1992

Mr. & Mrs. George Arnold
14300 Chenal Parkway, #7482
Little Rock, Arkansas 72211

Re: Well Permit Application Receipt No. 333218

Dear Mr. & Mrs. Arnold:

This is in reply to your letter dated December 10, 1991, in which you requested approval of a permit allowing "domestic" use of a well not exceeding a depth of 600 feet. Please carefully review the following, then amend your enclosed application as necessary. All amendments made to the application should be made in black ink and initialed and dated in the adjoining margins. The application should then be returned to this office for completion of the evaluation.

Applications are evaluated pursuant to Colorado State Statutes. Presently, there is no statutory provision to issue the type of permit you are seeking, unless you were to obtain a court-approved augmentation plan under which the well would operate. Such a plan could be costly and time-consuming to obtain.

After doing a preliminary evaluation of your application, we feel that the following options may be available to you:

1. Amend the application for production from the Dawson aquifer, which according to the Denver Basin Rules is in the interval from near ground surface to 255 feet below ground surface at your proposed well site. Well uses would be limited to ordinary household purposes inside one single family dwelling and the watering of the user's own noncommercial domestic animals. The irrigation of home gardens and lawns would not be permissible.
2. Amend the application for production from the Denver aquifer, in the interval from 325 feet to 875 feet below ground surface. Well use limitations would be the same as those described in option 1 above.
3. Amend the application for production from the Arapahoe aquifer, in the interval from 940 feet to 1,380 feet below ground surface. Well uses would be limited to ordinary household purposes inside not more than three single family dwellings, the watering of domestic animals, and the irrigation of not more than 1 acre of home gardens and lawns.

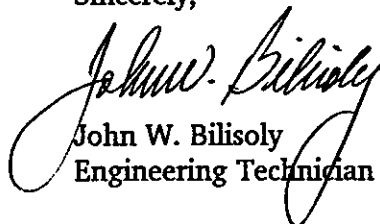
Mr. & Mrs. George Arnold
January 10, 1992
Page 2

If amending your application for options 1 or 2, the following amendments would be necessary: In item (3), the "Number of acres to be irrigated" should be zero. Again, in item (3), the "Proposed total depth" would be 255 feet if you were choosing the Dawson aquifer for production, or 875 feet if choosing the Denver aquifer. Again, in item (3), the "Aquifer ground water is to be obtained from" would be the "Dawson" or the "Denver", depending on which you apply for. Once more in item (3), under the heading, "GROUND WATER TO BE USED FOR:", the use, "DOMESTIC" should be deleted and "HOUSEHOLD USE ONLY-no irrigation" checked instead. Then, on the back of the application in item (8), "Plain Casing" would have to be installed to a minimum depth of 325 feet if choosing the Denver aquifer for production. "Perforated Casing" could then be installed to a total depth of 255 feet if choosing the Dawson aquifer and in the interval from 325 feet to 875 feet if choosing the Denver aquifer. Then in item (11), the reference to "watering of lawn and garden" would have to be deleted.

If amending your application for option 3, the following amendments would be necessary: In item (3), the "Average annual amount of ground water to be appropriated (acre-feet)" would need to be increased to 3 if applying for use in three single family dwellings. Again, in item (3), the "Proposed total depth" should be greater than 940 feet but not greater than 1,380 feet. Once more in item (3), the "Aquifer ground water is to be obtained from" would be the "Arapahoe". Then, on the back in item (8), "Plain casing" would have to be installed to a minimum depth of 940 feet. "Perforated Casing" could then be installed from 940 feet to a total depth not to exceed 1,380 feet. Then, in item (11), the use of water in three single family dwellings would have to be clearly stated if a desired use.

If you have any questions, feel free to contact this office at the above address or telephone number.

Sincerely,


John W. Bilisoly
Engineering Technician

JWB/
Enclosure

ROY ROMER
Governor



JERIS A. DANIELSON
State Engineer

RECEIVED

MAR 23 '92

WATER RESOURCES
STATE ENGINEER
COLO.

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

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

TO: George & Alyce Arnold
RECEIPT NO.: 333218

FROM: John W. Bilisoly *JB*
DATE: February 25, 1992

Your application for a permit to construct a well is being returned for the reason(s) listed below. The amendments and/or additional information or documentation requested is required before we can proceed with the evaluation of your application.

All amendments made to the application must be typed or printed in **BLACK INK**. Please initial and date all amendments made then return the application and all attachments to this office. If you have any questions, feel free to contact this office.

In item (7) on the back of the application, you state that the proposed well would be the only well on the 40 acre tract. However, in researching our records, we find that the well constructed under Permit No. 69920 plots on this 40 acre tract. The well was decreed in Case No. 84CW16, Div. 2. The decreed location is the same as the permit location. Please see the enclosed map and the copies of Permit No. 69920 and Case No. 84CW16. In order for this office to consider approval of your application, your proposed well would have to be the only well on a tract of 35 acres or more.

This matter has been referred to our Water Commissioner and a field inspection of the property requested.

TO: John W. Bilisoly

Attached is the well permit application, Receipt No. 333218, which you returned to the owners of the 40 acre tract, Mr. and Mrs. George Arnold. They wish to resubmit it for consideration since Ms. Becky Nichols completed her field inspection on March 18, 1992 and found that there is no existing well on the 40 acre tract. Ms. Nichols stated by phone today that she submitted her report to you on March 18.

*579-0079
Becky Nichols*
Mr. and Mrs. Arnold would appreciate anything that can be done to speed up the reprocessing of their application as a sale of the property is "on hold" pending receipt of the well permit. If there is any further information required, you could call our office and we could coordinate things. Thank you, John.

Sincerely,
THE RAWHIDE COMPANY, REALTORS

Pam Piper
Pamela Piper
Office phone: (719) 599-0900

ROY ROMER
Governor



JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581
FAX (303) 866-3589
February 25, 1992

MEMORANDUM

TO: Becky Nichols, Water Commissioner, District 10

FROM: John W. Bilisoly, Permitting & Enforcement *JWB*

SUBJECT: Arnold Application, Receipt No. 333218

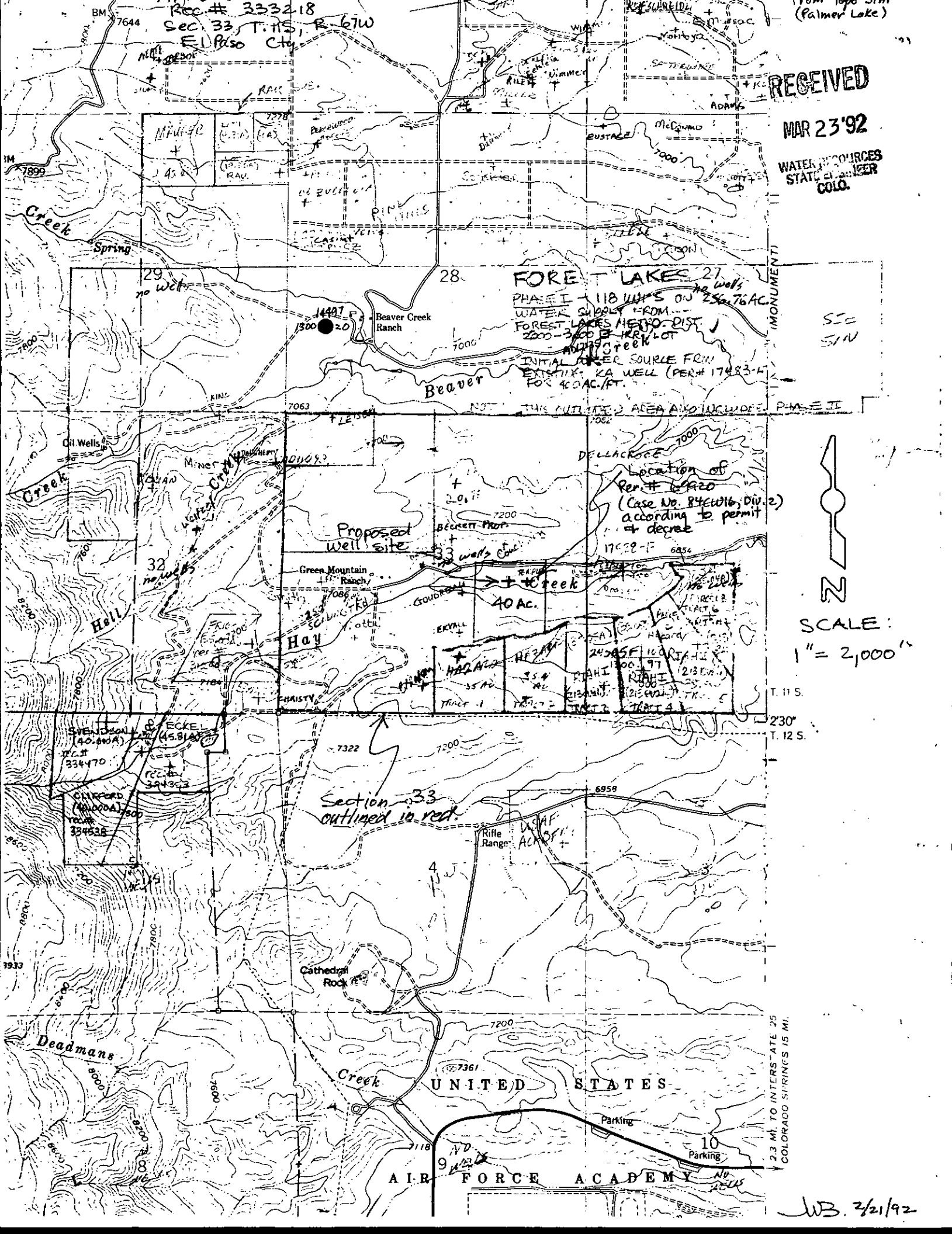
Mr. George Arnold is applying for a permit to construct a well as the only well on a tract of 40 acres. He claims there are no existing wells on the tract. However, we find a permitted well that plots on this 40 acres according to the location on the permit. The well is also decreed and the decreed location is the same as the permitted location. Mr. Arnold lives in Little Rock, Arkansas, so it is difficult for him to check this out. It appears to me that a field inspection is needed to determine if there are any wells on the 40 acre tract, and if not, where well Permit No. 69920 is located.

I've enclosed a map showing the Arnold tract, the proposed well location, and the existing well location. Also, enclosed are copies of the Arnold application, Permit No. 69920 and Case No. 84CW16, Div. 2. Thanks Becky.

JWB/
Enclosures

Rec # 333218
Sec 33, T. 11 S., R. 61 W
El Paso City

RECEIVED
MAR 23 '92
WATER RESOURCES
STATE ENGINEER
COLO.



FOREST LAKES
PHASE I + 118 WELLS ON 256,76 AC
WATER SUPPLY FROM
FOREST LAKES METRO. DIST. 1
2000-3000 FT. HRS. LOT
INITIAL WATER SOURCE FROM
EXISTING KA WELL (PER # 17483-L
FOR 40 AC. FT.

Location of
Per # 6620
(Case No. 846016, Div. 2)
according to permit
& decree

Proposed
well site

Section 33
outlined in red



SCALE:
1" = 2,000'

2.3 MI. TO INTERSTATE 25
COLORADO SPRINGS 15 MI.

AIR FORCE ACADEMY

WB. 2/21/92

RECEIVED

MAR 23 '92

WATER RESOURCES
STATE ENGINEER
COLO.

March 20, 1992

MEMO

TO: John Bilisoly

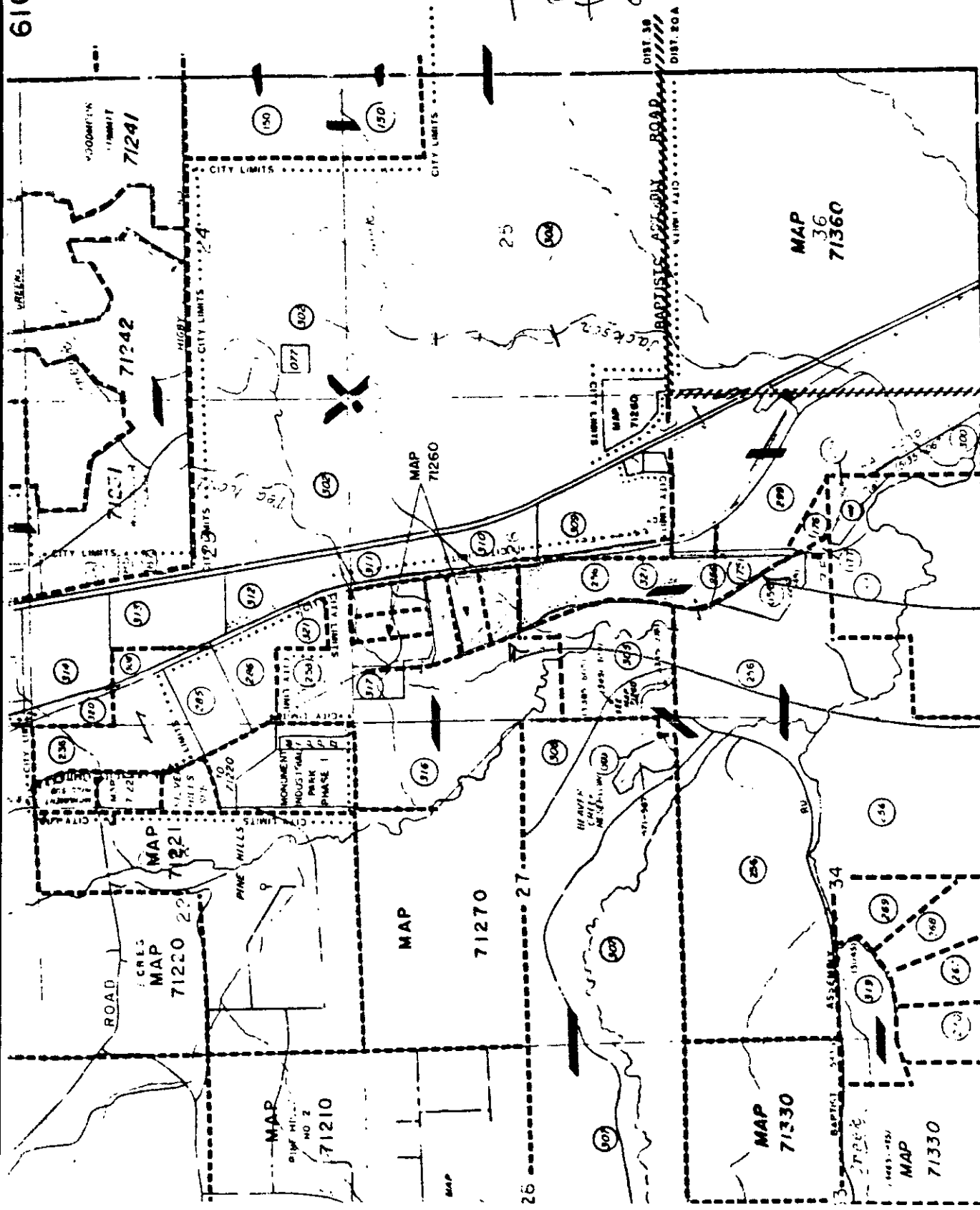
FROM: Becky Nichols, Water Commissioner Dist. 10 *BN*

RE: Arnold Application Receipt No. 333218

On Wednesday, March 18, 1992, I field inspected the 40 acre tract that you had indicated on the map you sent to me which was attached to your February 23, 1992 letter. I looked for wells at the location indicated for well permit #69920. The results are: the well location in permit #69920 is incorrect. There is no well in stated location but there is a newer well located in the NENESE Sec.33, 11S. 67W.--this well is approximately 200' from the east section line of section 33. I suspect that this is the correct location for #69920 as it is located on applicants (D.W. Temple) land. There is also an old hand dug well approximately 10' from the east side of the 40 acres in question. This old well has a hand pump attached to it and I would guess that it is probably not registered nor is it used.

The proposed well site would be within 600' of the newer existing well and also within 600' of the old hand dug well. I told the realtor who is selling this property that the well would probably only be permitted for 1 acre foot annually but could be used for up to 3 houses on this 40 acre tract.

61000



This map from
 Becky N. appears
 to be incorred
 as Arnold's
 property is
 in Sec. 33,
 not 26.

WB. 3/27/92

1700

71000

RANGE 67 WEST
 TOWNSHIP 11 SOUTH

TEMPLE

ARNOLD

RECEIVED

MAR 23 '92

WATER RESOURCES
 SLATE ENGINEERING
 CO.

ADJOINING

72000

466

Form No. GWS-11 06/00

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589

For Office Use Only

2

RECEIVED

JUL 18 2001

WATER RESOURCES
STATE ENGINEER
COLO.

**CHANGE IN OWNERSHIP/ADDRESS
CORRECTION OF THE WELL LOCATION**

Insert the Well Permit Number 163509

Name, address and phone of the person claiming ownership of the well:

NAME(S) RICHARD DUDDING

Mailing Address 3405 HAY CREEK Rd.

City, St. Zip Colo Springs CO 80921

Phone (719) 481-8072

#0333218

If your well has an absolute water right, decreed by the court and the well is not registered with the State Engineer, enter the Water Court Case Number / Civil Action Number and well number as decreed.

This form is filed by the named individual/entity claiming that they are the owner of the well permitted as referenced above. This filing is made pursuant to C.R.S. 37-90-143.

WELL LOCATION: County EL PASO Owner's Well Designation _____
3405 Hay Creek Rd. Colo. Springs CO 80921
(Address) (City) (State) (Zip)

NW 1/4 of the SE 1/4, Sec. 33, Twp. 11S N. or S., Range 67W E. or W., 6th P.M.

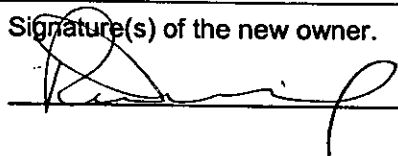
Distance from Section Lines 2300 Ft. From N. or S., 1400 Ft. From E. or W. Line.

Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____

The above listed owner(s) say(s) that he, she (they) own the well described herein. The existing record is being amended for the following reasons: Change in name of owner Change in mailing address
 Correction of location for exempt wells permitted prior to May 8, 1972 and non-exempt wells permitted after May 17, 1965. Please see the reverse side for further information regarding correction of the well location.

I (we) claim and say that I (we) (are) the owner(s) of the well described above and that the commencement of extraction of ground water from this well, lawfully made under the well permit, occurred on the date indicated, and that the statements made herein are true to my (our) knowledge.

Please print the Signer's Name & Title
RICHARD DUDDING

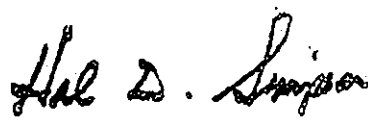
Signature(s) of the new owner.


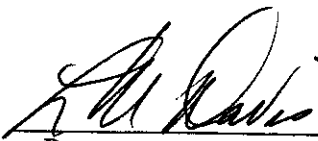
Date
7-18-01

It is the responsibility of the new owner of this well to complete and sign the form. Signatures of agents are acceptable if an original letter of agency signed by the owner is attached to the form upon its receipt.

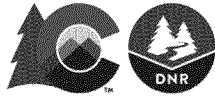
For Office Use Only

ACCEPTED AS A CHANGE IN OWNERSHIP
AND/OR MAILING ADDRESS.


State Engineer


By

JUL 23 2001
Date



May 21, 2021

Paso Llana Investors
3405 Hay Creek Rd
Colorado Springs, CO 80921

Subject: Permit no. 163509 must be re-permitted

Dear Paso Llana Investors or current owners of well no. 163509:

It has come to our attention that the size of parcel on which well no. 163509 is located has changed since the time that the permit was issued. Permit no. 163509 was issued pursuant to section 37-92-602(3)(b)(II)(A), C.R.S. as the only well on a tract of land of 40 acres described as a portion of the SE ¼ of Section 33, Township 11 South, Range 67 West, 6th P.M. The permit information is available online: <https://dwr.state.co.us/Tools/WellPermits/0333218>.

County records show that the original 40-acre parcel has been divided and the parcel (parcel no. 7133007025) on which the well is currently located is 30.05 acres. Therefore, this well has the potential to create conflict with its continued legal operation and the evaluation of new well permits on adjacent parcels. As such, well no. 121542 must be re-permitted consistent with the law as it applies to the size of the parcel on which it is located. Please use form GWS-44 to apply to re-permit this well, available at: <https://dwr.colorado.gov/forms>. Please include a copy of the property deed with the application and information regarding how the 30.05-acre parcel was created, such as copies of the county commissioner's resolution concerning this land division, a survey plat map of the property, and any other relevant information.

Please contact this office at 303-866-3581 or visit our website for additional information.

Sincerely,

Wendi Dickinson
Water Resource Engineer



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 58768 - F -
DIV. 2 WD 10 DES. BASIN MD

APPLICANT

HAY CREEK LLC
3045 HAY CREEK RD
COLORADO SPRINGS, CO 80921-

(719) 266-6622

APPROVED WELL LOCATION

EL PASO COUNTY
NE 1/4 SE 1/4 Section 33
Township 11 S Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

2265 Ft. from South Section Line
520 Ft. from East Section Line

UTM COORDINATES

Northing: Easting:

CHANGE/EXPANSION OF USE OF AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

Page 1 of 2

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 this 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 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 18.
- 3) Approved pursuant to CRS 37-90-137(4) for the use of an existing well permitted under permit no. 167807, on the condition that this well is operated in accordance with the James D. Hull augmentation plan approved by the Division 2 Water Court in case no. 01CW21. If the well is not operated in accordance with the terms of said decree, it will be subject to administration including orders to cease diverting water. The issuance of this permit cancels permit no. 167807.
- 4) The use of ground water from this well is limited to ordinary household purposes inside one single family dwelling, landscape irrigation, livestock watering, and for such other uses as approved under case no. 01CW21.
- 5) Production is limited to the Dawson aquifer.
- 6) The maximum pumping rate of this well shall not exceed 15 GPM.
- 7) The maximum annual amount of ground water to appropriated shall not exceed 0.75 acre-feet (244,000 gallons).
- 8) A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 10) The return flow from the use of this 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, or through a central wastewater treatment facility discharging to Monument Creek.
- 11) This well shall be at least 600 feet from any existing well completed in the same aquifer, that is not owned by the applicant, and which is outside the boundaries of the 50-acre tract of land that is described in case no. 01CW21, and not more than 200 feet from the location specified on this permit.

NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

APPROVED
JWB

State Engineer

DATE ISSUED **DEC 12 2002**

By **NIA**

Receipt No. 0502694B

EXPIRATION DATE

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

NOTE: The well was constructed under permit no. 69920. Permit no. 69920 was canceled and a new permit issued under permit no. 167807 to correct the location of the existing well. The well was also granted an absolute underground water right by the Division 2 Water Court in case no. 84CW16. Case no. 92CW11 then granted a change in the point of diversion to reflect the actual location of the well.

NOTE: This well is located on a residential site of 7.62 acres, described as lot 9 of the proposed Hay Creek Ranch Subdivision, El Paso County.

WB. 12/10/2002

#0502694B

WRJ-26-72

Ent

COLORADO DIVISION OF WATER RESOURCES
300 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

RECEIVED
58768-F
SEP 29 1975
WATER RESOURCES
STATE ENGINEER
COLO.

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

WELL COMPLETION AND PUMP INSTALLATION REPORT
PERMIT NUMBER 19720

WELL OWNER Dearl W. Temple NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 33
3045 W. Baptist Rd.
ADDRESS Colorado Springs, Colo. 80908 T. 11 S, R. 67 W, 6th P.M.
DATE COMPLETED August 21, 1975

HOLE DIAMETER
6 in. from 0 to 218 ft.

WELL LOG

_____ in. from _____ to _____ ft.
_____ in. from _____ to _____ ft.

From	To	Type and Color of Material	Water Loc.
0	10	top soil	X
10	30	brown clay	
30	170	red clay	
170	175	gravel	
175	218	red clay	
TOTAL DEPTH <u>218 ft.</u>			

DRILLING METHOD cable tool
CASING RECORD: Plain Casing
Size 5" & kind plastic from 0 to 170 ft.
Size " & kind " from 200 to 218 ft.
Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing
Size 5" & kind plastic from 170 to 200 ft.
Size _____ & kind _____ from _____ to _____ ft.
Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD
Material cement
Intervals 6-20 ft.
Placement Method poured from top

GRAVEL PACK: Size 3/8
Interval 20-218

TEST DATA
Date Tested August 21, 1975
Static Water Level Prior to Test 160 ft.
Type of Test Pump Bailed
Length of Test 1 hr.
Sustained Yield (Metered) 15 GPM
Final Pumping Water Level 200 ft.

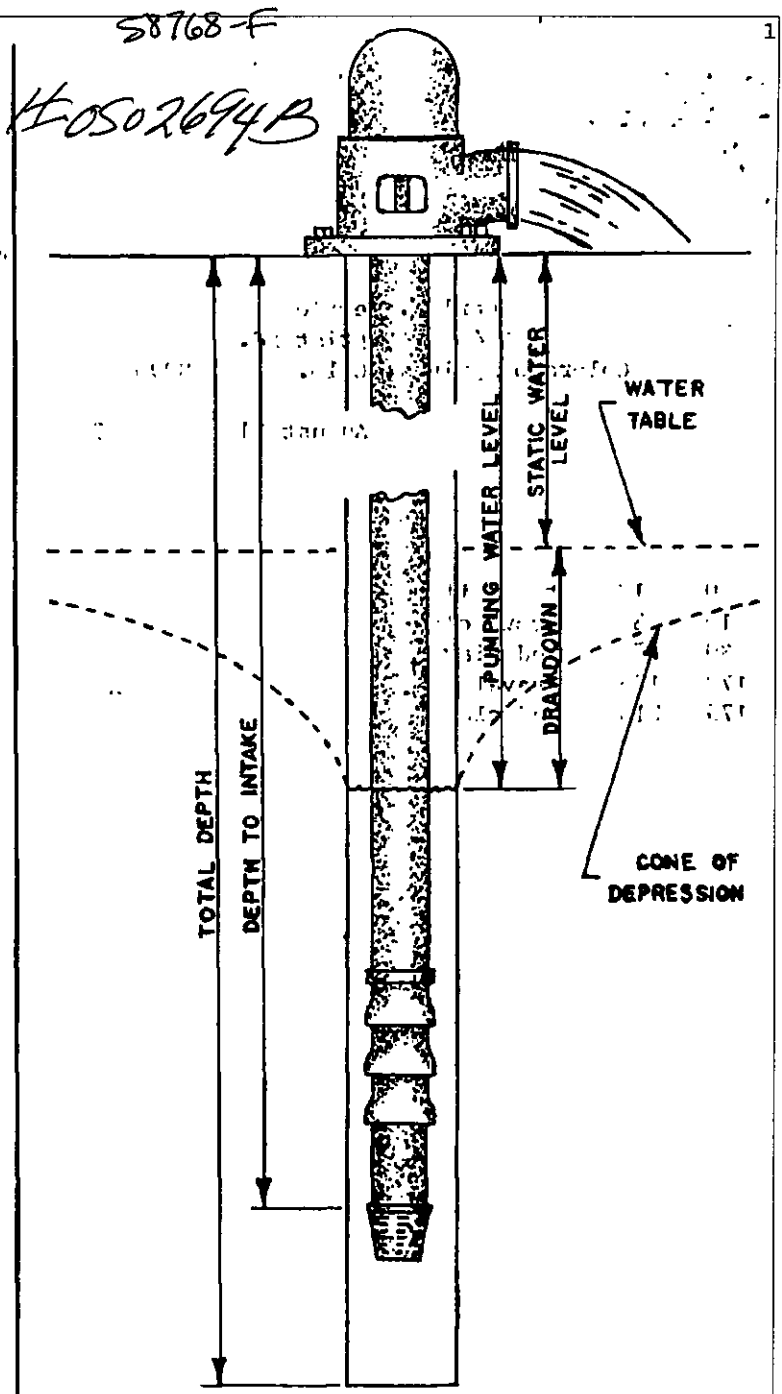
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make Sta-Rite
 Type submersible
 Powered by electric HP 1
 Pump Serial No. 8P4
 Motor Serial No. X2
 Date Installed Sept. 12, 75
 Pump Intake Depth 206 ft.
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested Sept. 12, 1975
 Static Water Level Prior to Test 160 ft.
 Length of Test 2 Hours
 Sustained yield (Metered) 15 GPM
 Pumping Water Level 200
 Remarks _____



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 [Handwritten Signature] License No. 150
 State of Colorado, County of Denver SS
 Subscribed and sworn to before me this 24th day of September, 19 75.
 My Commission expires: December 16, 19 78.
 Notary Public [Handwritten Signature]

FORM TO BE MADE OUT IN QUADRUPPLICATE: 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.

21 November 2002

Colorado Division of Water Resources
1313 Sherman St. Room 818
Denver, Colorado 80203

RECEIVED
DEC 10 2002

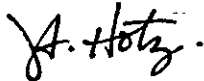
WATER RESOURCES
STATE ENGINEER
COLO.

To whom it may concern,

This submittal for changing the existing flow on our well may be somewhat confusing. According to water court case #01CW21, we were required to put a limit of 0.75 acre-feet annually on the mentioned well (permit # 167807) that currently has NO limit. If you have any questions at all in regard to this submittal, please contact us at (719) 266-6622 or (719) 440-6994.

Thank you for your time and understanding!

Sincerely,



Justin Hotz, for Hay Creek Ranch

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
 1313 SHERMAN ST., RM 818, DENVER, CO 80203
 phone - info: (303) 866-3587 main: (303) 866-3581
 fax: (303) 866-3589 http://www.water.state.co.us

Office Use Only Form GWS-45 (1/2001)

RECEIVED
DEC 10 2002
 WATER RESOURCES
 STATE ENGINEER
 COLO.

GENERAL PURPOSE
Water Well Permit Application
 Review instructions on reverse side prior to completing form.
 The form must be completed in black ink.

1. Applicant Information
 Name of applicant
 Hay Creek LLC.
 Mailing address
 3045 Hay Creek Road
 City State Zip code
 Colorado Springs CO 80921
 Telephone #
 (719) 266-6622

6. Use Of Well (check applicable boxes)
 Attach a detailed description of uses applied for.
 Industrial Other (describe):
 Municipal Pursuant to case #
 Irrigation 01CW21
 Commercial

2. Type Of Application (check applicable boxes)
 Construct new well Use existing well
 Replace existing well Change or increase use
 Change source (aquifer) Reapplication (expired permit)
 Other:

7. Well Data (proposed)
 Maximum pumping rate Annual amount to be withdrawn
 15 gpm 0.75 acre-feet
 Total depth Aquifer
 215 feet Dawson

3. Refer To (if applicable)
 Well permit # Water Court case #
 167807 92CW11 and 84CW16
 Designated Basin Determination # Well name or #
 N/A N/A

8. Land On Which Ground Water Will Be Used
 A. Legal Description (may be provided as an attachment):
 Legal Description attached
 **Lot 9 of Proposed Subdivision
 (If used for crop irrigation, attach a scaled map that shows irrigated area.)

4. Location Of Proposed Well ** (EXISTING)
 County NE 1/4 of the SE 1/4
 El Paso
 Section Township N or S Range E or W Principal Meridian
 33 11 67 6th PM
 Distance of well from section lines (section lines are typically not property lines)
 2265 Ft. from N S 520 Ft. from E W
 For replacement wells only - distance and direction from old well to new well
 feet direction
 Well location address (if applicable)
 Optional: GPS well location information in UTM format
 Required settings for GPS units are as follows:
 Format must be UTM
 Zone must be 13 Northing
 Units must be Meters Easting
 Datum must be NAD27 (CONUS)
 Unit must be set to true north
 Were points averaged? YES NO

B. # Acres C. Owner
 7.62 Hay Creek LLC.
 D. List any other wells or water rights used on this land:
 None presently

5. Parcel On Which Well Will Be Located
 A. Legal Description (may be provided as an attachment):
 Legal Description attached
 (This is a pre-existing well. We are simply limiting the flow.)
 **Lot 9 of Proposed Subdivision
 B. # of acres in parcel C. Owner
 7.62 Hay Creek LLC.
 D. Will this be the only well on this parcel? YES NO (if no - list other wells)
 At present
 E. State Parcel ID# (optional):

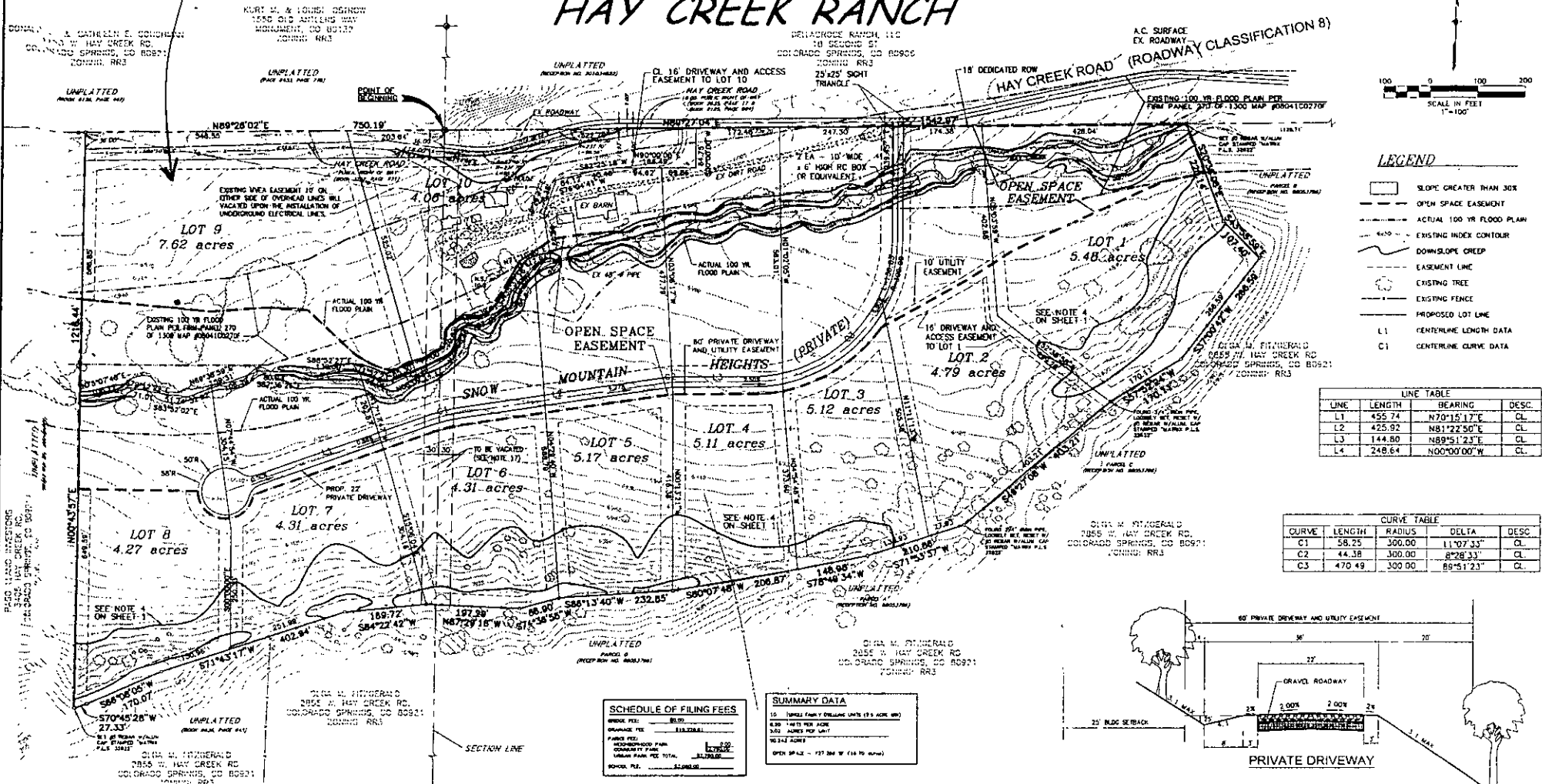
9. Proposed Well Driller License #(optional):
10. Signature Of Applicant(s) Or Authorized Agent
 The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.
 Sign here (Must be original signature) Date
 James D. Hull, Mgr./Owner Hay Creek LLC 11-21-02
Office Use Only

USGS map name Palmer Lake DWR map no. SIM Surface elev.
 Receipt area only
 Invoice # 502694-B
 12/10/02 -- 7:00:51 AM
 Cashier ID: 03
 \$ 120.00
 Check Purchase- #2366
 WE
 WR
 CWCB
 TOPO ✓ plotted well site & info
 MYLAR ✓ (Tdw)
 SB5 DIV 2 WD 10 BA MD

WE
 WR
 CWCB
 TOPO ✓ plotted well site & info
 MYLAR ✓ (Tdw)
 SB5 DIV 2 WD 10 BA MD

Proposed Lot #9

Proposed PRELIMINARY PLAN HAY CREEK RANCH



LEGEND

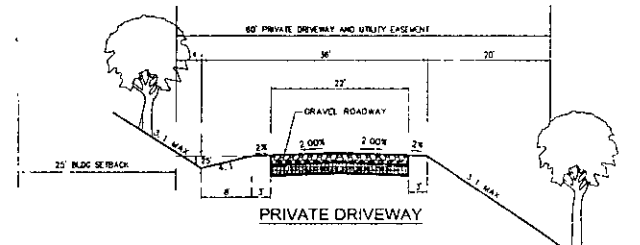
- SLOPE GREATER THAN 30%
- OPEN SPACE EASEMENT
- ACTUAL 100 YR FLOOD PLAN
- EXISTING INDEX CONTOUR
- DOWNSLOPE CREEP
- EASEMENT LINE
- EXISTING TREE
- EXISTING FENCE
- PROPOSED LOT LINE
- L1 CENTERLINE LENGTH DATA
- C1 CENTERLINE CURVE DATA

LINE TABLE

LINE	LENGTH	BEARING	DESC.
L1	455.74	N70°15'17"E	CL
L2	425.92	N81°22'50"E	CL
L3	144.80	N89°51'23"E	CL
L4	248.64	N00°00'00"W	CL

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	DESC.
C1	58.25	300.00	11°07'33"	CL
C2	44.38	300.00	8°28'33"	CL
C3	470.49	300.00	86°51'23"	CL

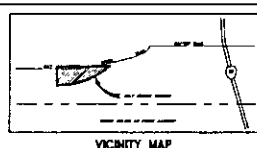


SCHEDULE OF FILING FEES

PRELIM. PLAN	\$50.00
REVISIONS	\$15.00 PER PAGE
RECORDING FEE	\$11.00 PER PAGE
NOTARIAL FEE	\$10.00 PER PAGE
URBAN PLAN FEE TOTAL	\$126.00
ADDITIONAL FEE	\$2.00 PER PAGE
TOTAL FEE	\$130.00

SUMMARY DATA

10	UNPLATTED (RECORDING NO. 201211002)
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SUBDIVIDER
 HAY CREEK, LLC
 3015 HAY CREEK ROAD
 COLORADO SPRINGS, CO 80921

Matrix Design Group, Inc.
 Integrated Design Solutions
 2915 Professional Place, Suite 202
 Colorado Springs, CO 80909
 Phone 719-575-7500
 Fax 719-575-7500

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.

HAY CREEK RANCH
 HAY CREEK, LLC
 PRELIMINARY PLAN

REVISIONS

NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE
A	07/02	JPL	REDUCED 7 OF LOTS, REVISED OPEN SPACE COUNTY COMMENTS		
B	07/02	JPL			

Drawing Name/Location
 101001

FORMER BY: JPL
 DRAWN BY: JPL
 CHECKED BY: JPL

SCALE: NONE
 DATE: 07/02/02
 DATE: 07/02/02
 DATE: 07/02/02

PROJECT NO: 101001
 SHEET NO: 101001

DATE: 07/02/02
 TIME: 10:00 AM

PRELIM

S:\07-054-00\Draw\Dev\on\PRELIM.dwg, 08/30/02 07:26:31 AM © Matrix Design Group, Inc. 2002.pl

El Paso County Land Development Code
Water Quality Requirements and Results
Denver Confined Aquifer
Hay Creek Property
3405 Hay Creek
Sampled - 05/13/2024

Compound	Units	MCL/SMCL	Result
Antimony	mg/l	0.006	0
Arsenic	mg/l	0.01	0
Barium	mg/l	2	0.0647
Beryllium	mg/l	0.004	0.0002
Cadmium	mg/l	0.005	0
Chromium	mg/l	0.1	0
Cyanide (Total)	mg/l	0	0
Fluoride	mg/l	4	1.3
Mercury	mg/l	0.002	0
Nitrate as N	mg/l	10	0.19
Nitrite as N	mg/l	1	0
Total Nitrate/Nitrite as N	mg/l	10	0.19
Selenium	mg/l	0.05	0.0057
Thallium	mg/l	0.002	0
Aluminum	mg/l	0.05	0
Chloride	mg/l	250	1.9
Langlier Index			-1.31
Iron	mg/l	0.3	0
Manganese	mg/l	0.05	0
pH		6.5 - 8.5	6.86
Silver	mg/l	0.1	0
Sulfate	mg/l	250	9
TDS	mg/l	500	117
Zinc	mg/l	5	0.212
Gross Alpha/Beta	pCi/l	15	10.7
Combined Radium 226+228	pCi/l	5	6
Total Coliform	#/100 ml	Absent	Absent

Green = Result below MCL - Acceptable Water Quality

Red = Result above MCL - Not acceptable Water Quality

***El Paso County Land Development Code
Water Quality Requirements and Results
Dawson Confined Aquifer
Hay Creek Property
3255 Hay Creek Road
Sampled - 05/13/2024***

Compound	Units	MCL/SMCL	Result
Antimony	mg/l	0.006	0
Arsenic	mg/l	0.01	0
Barium	mg/l	2	0.0562
Beryllium	mg/l	0.004	0.0002
Cadmium	mg/l	0.005	0
Chromium	mg/l	0.1	0
Cyanide (Total)	mg/l	0	0
Fluoride	mg/l	4	1.37
Mercury	mg/l	0.002	0
Nitrate as N	mg/l	10	0.17
Nitrite as N	mg/l	1	0
Total Nitrate/Nitrite as N	mg/l	10	0.17
Selenium	mg/l	0.05	0.005
Thallium	mg/l	0.002	0
Aluminum	mg/l	0.05	0
Chloride	mg/l	250	2.2
Langlier Index			-1.4
Iron	mg/l	0.3	0.019
Manganese	mg/l	0.05	0
pH		6.5 - 8.5	6.72
Silver	mg/l	0.1	0
Sulfate	mg/l	250	12.3
TDS	mg/l	500	122
Zinc	mg/l	5	0.044
Gross Alpha/Beta	pCi/l	15	14.9
Combined Radium 226+228	pCi/l	5	5.3
Total Coliform	#/100 ml	Absent	Absent

Green = Result below MCL - Acceptable Water Quality

Red = Result above MCL - Not acceptable Water Quality

Analytical Results

TASK NO: 240523003

Report To: Brian Elkins
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003
Client PO:
Client Project: Hay Creek

Date Received: 5/23/24
Date Reported: 6/18/24
Matrix: Water - Drinking

Customer Sample ID 1 Denver
Sample Date/Time: 5/22/24 9:39 AM
Lab Number: 240523003-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Total Coliform	ND mpn/100ml	Colilert	1 mpn/100ml		5/24/24	-	DJL
Chloride	1.9 mg/L	EPA 300.0	0.1 mg/L	250	5/24/24	QC73642	AMJ
Fluoride	1.30 mg/L	EPA 300.0	0.10 mg/L	4	5/24/24	QC73643	AMJ
Nitrate Nitrogen	0.19 mg/L	EPA 300.0	0.05 mg/L	10	5/24/24	QC73644	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03 mg/L	1	5/24/24	QC73647	AMJ
Sulfate	9.0 mg/L	EPA 300.0	0.1 mg/L	250	5/24/24	QC73646	AMJ
Cyanide-Total	ND mg/L	EPA 335.4	0.005 mg/L		5/28/24	QC73676	KRB
Total							
Iron	ND mg/L	EPA 200.7	0.005 mg/L		5/29/24	QC73688	MBN
Aluminum	ND mg/L	EPA 200.8	0.001 mg/L	0.05	5/24/24	QC73652	MBN
Antimony	ND mg/L	EPA 200.8	0.0012 mg/L	0.006	5/24/24	QC73652	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006 mg/L	0.01	5/24/24	QC73652	MBN
Barium	0.0647 mg/L	EPA 200.8	0.0007 mg/L	2	5/24/24	QC73652	MBN
Beryllium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	0.004	5/24/24	QC73652	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001 mg/L	0.005	5/24/24	QC73652	MBN
Chromium	ND mg/L	EPA 200.8	0.0015 mg/L	0.1	5/24/24	QC73652	MBN
Manganese	ND mg/L	EPA 200.8	0.0008 mg/L	0.05	5/24/24	QC73652	MBN
Mercury	ND mg/L	EPA 200.8	0.0001 mg/L	0.002	5/24/24	QC73652	MBN
Selenium	0.0057 mg/L	EPA 200.8	0.0008 mg/L		5/24/24	QC73652	MBN
Silver	ND mg/L	EPA 200.8	0.0005 mg/L	0.1	5/24/24	QC73652	MBN

Abbreviations/References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 240523003

Report To: Brian Elkins
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003
Client PO:
Client Project: Hay Creek

Date Received: 5/23/24
Date Reported: 6/18/24
Matrix: Water - Drinking

Customer Sample ID 1 Denver
Sample Date/Time: 5/22/24 9:39 AM
Lab Number: 240523003-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
<i>Total</i>							
Thallium	ND mg/L	EPA 200.8	0.0002 mg/L	0.002	5/24/24	QC73652	MBN
Zinc	0.212 mg/L	EPA 200.8	0.001 mg/L	5	5/24/24	QC73652	MBN

Abbreviations/References:

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mpr/100 mls = Most Probable Number Index/ 100 mls
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Analytical Results

TASK NO: 240523003

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Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003
Client PO:
Client Project: Hay Creek

Date Received: 5/23/24
Date Reported: 6/18/24
Matrix: Water - Drinking

Customer Sample ID: 2 Dawson
Sample Date/Time: 5/22/24 9:51 AM
Lab Number: 240523003-02

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Total Coliform	ND mpn/100ml	Colilert	1 mpn/100ml		5/24/24	-	DJL
Chloride	2.2 mg/L	EPA 300.0	0.1 mg/L	250	5/24/24	QC73642	AMJ
Fluoride	1.37 mg/L	EPA 300.0	0.10 mg/L	4	5/24/24	QC73643	AMJ
Nitrate Nitrogen	0.17 mg/L	EPA 300.0	0.05 mg/L	10	5/24/24	QC73644	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03 mg/L	1	5/24/24	QC73647	AMJ
Sulfate	12.3 mg/L	EPA 300.0	0.1 mg/L	250	5/24/24	QC73646	AMJ
Cyanide-Total	ND mg/L	EPA 335.4	0.005 mg/L		5/28/24	QC73676	KRB
Total							
Iron	0.091 mg/L	EPA 200.7	0.005 mg/L		5/29/24	QC73688	MBN
Aluminum	ND mg/L	EPA 200.8	0.001 mg/L	0.05	5/24/24	QC73652	MBN
Antimony	ND mg/L	EPA 200.8	0.0012 mg/L	0.006	5/24/24	QC73652	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006 mg/L	0.01	5/24/24	QC73652	MBN
Barium	0.0562 mg/L	EPA 200.8	0.0007 mg/L	2	5/24/24	QC73652	MBN
Beryllium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	0.004	5/24/24	QC73652	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001 mg/L	0.005	5/24/24	QC73652	MBN
Chromium	ND mg/L	EPA 200.8	0.0015 mg/L	0.1	5/24/24	QC73652	MBN
Manganese	ND mg/L	EPA 200.8	0.0008 mg/L	0.05	5/24/24	QC73652	MBN
Mercury	ND mg/L	EPA 200.8	0.0001 mg/L	0.002	5/24/24	QC73652	MBN
Selenium	0.0050 mg/L	EPA 200.8	0.0008 mg/L		5/24/24	QC73652	MBN
Silver	ND mg/L	EPA 200.8	0.0005 mg/L	0.1	5/24/24	QC73652	MBN

Abbreviations/ References:

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ug/L = Micrograms Per Liter or PPB
mpn/100 ml = Most Probable Number Index/ 100 ml
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 240523003

Report To: Brian Elkins
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003 **Date Received:** 5/23/24
Client PO: **Date Reported:** 6/18/24
Client Project: Hay Creek **Matrix:** Water - Drinking

Customer Sample ID 2 Dawson
Sample Date/Time: 5/22/24 9:51 AM
Lab Number: 240523003-02

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
<i>Total</i>							
Thallium	ND mg/L	EPA 200.8	0.0002 mg/L	0.002	5/24/24	QC73652	MBN
Zinc	0.044 mg/L	EPA 200.8	0.001 mg/L	5	5/24/24	QC73652	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 ml's = Most Probable Number Index/ 100 ml's
Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
ND = Not Detected at Reporting Limit.

Report To: Brian Elkins
Company: RESPEC Company, LLC

Receive Date: 5/23/24
Project Name: Hay Creek

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Chloride	QC73642	Blank	ND	EPA 300.0	5/23/24
Cyanide-Total	QC73676	Blank	ND	EPA 335.4	5/28/24
Fluoride	QC73643	Blank	ND	EPA 300.0	5/23/24
Aluminum	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Antimony	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Arsenic	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Barium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Beryllium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Cadmium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Chromium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Manganese	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Mercury	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Selenium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Silver	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Thallium	QC73652	Method Blank	ND	EPA 200.8	5/23/24
Zinc	QC73652	Method Blank	ND	EPA 200.7	5/23/24
Iron	QC73688	Method Blank	ND	EPA 300.0	5/23/24
Nitrate Nitrogen	QC73644	Blank	ND	EPA 300.0	5/23/24
Nitrite Nitrogen	QC73647	Blank	ND	EPA 300.0	5/23/24
Sulfate	QC73646	Blank	ND	EPA 300.0	5/23/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC73642	Duplicate -240522082-05	0 - 20	-	2.6	EPA 300.0
		LCS	90 - 110	99.5	-	
		MS -240522082-05	75 - 125	98.6	-	
Cyanide-Total	QC73676	Duplicate -240523025-07	0 - 20	-	6.5	EPA 335.4
		LCS	90 - 110	104.4	-	
		MS -240522121-02	75 - 125	82.0	-	
Fluoride	QC73643	Duplicate -240522082-05	0 - 20	-	3.0	EPA 300.0
		LCS	90 - 110	105.2	-	
		MS -240522082-05	75 - 125	96.1	-	
Aluminum	QC73652	LCS	90 - 110	107.5	-	EPA 200.8
		MS -240523001-01A	70 - 130	86.1	-	
		MSD -240523001-01A	0 - 10	-	2.4	
Antimony	QC73652	LCS	90 - 110	105.6	-	EPA 200.8
		MS -240523001-01A	70 - 130	104.3	-	
		MSD -240523001-01A	0 - 10	-	0.2	
Arsenic	QC73652	LCS	90 - 110	101.2	-	EPA 200.8
		MS -240523001-01A	70 - 130	109.8	-	
		MSD -240523001-01A	0 - 10	-	0.5	
Barium	QC73652	LCS	90 - 110	100.7	-	EPA 200.8

Abbreviations/ References:

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 ug/L = Micrograms Per Liter or PPB
 mpr/100 mls = Most Probable Number Index/ 100 mls
 Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
 ND = Not Detected at Reporting Limit.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MS -240523001-01A	70 - 130	98.1	-	
		MSD -240523001-01A	0 - 10	-	0.9	
Beryllium	QC73652	LCS	90 - 110	107.1	-	EPA 200.8
		MS -240523001-01A	70 - 130	83.2	-	
		MSD -240523001-01A	0 - 10	-	1.7	
		LCS	90 - 110	101.7	-	
Cadmium	QC73652	MS -240523001-01A	70 - 130	106.9	-	
		MSD -240523001-01A	0 - 10	-	0.1	
Chromium	QC73652	LCS	90 - 110	102.0	-	EPA 200.8
		MS -240523001-01A	70 - 130	100.9	-	
		MSD -240523001-01A	0 - 10	-	2.1	
		LCS	90 - 110	104.1	-	
Manganese	QC73652	MS -240523001-01A	70 - 130	93.2	-	
		MSD -240523001-01A	0 - 10	-	1.4	
Mercury	QC73652	LCS	90 - 110	103.5	-	EPA 200.8
		MS -240523001-01A	70 - 130	107.0	-	
		MSD -240523001-01A	0 - 10	-	0.1	
		LCS	90 - 110	98.7	-	
Selenium	QC73652	MS -240523001-01A	70 - 130	114.4	-	
		MSD -240523001-01A	0 - 10	-	0.0	
Silver	QC73652	LCS	90 - 110	109.4	-	EPA 200.8
		MS -240523001-01A	70 - 130	90.5	-	
		MSD -240523001-01A	0 - 10	-	1.5	
		LCS	90 - 110	103.2	-	
Thallium	QC73652	MS -240523001-01A	70 - 130	94.1	-	
		MSD -240523001-01A	0 - 10	-	4.3	
Zinc	QC73652	LCS	90 - 110	102.6	-	EPA 200.8
		MS -240523001-01A	70 - 130	93.4	-	
		MSD -240523001-01A	0 - 10	-	0.8	
		Duplicate -240523001-02	0 - 20	-	11.7	
Iron	QC73688	LCS	90 - 110	109.9	-	
		MS -240523003-01A	75 - 125	121.0	-	
Nitrate Nitrogen	QC73644	Duplicate -240522082-05	0 - 20	-	2.2	EPA 300.0
		LCS	90 - 110	96.8	-	
		MS -240522082-05	75 - 125	92.3	-	
		Duplicate -240522098-01	0 - 20	-	0.0	
Nitrite Nitrogen	QC73647	LCS	90 - 110	94.8	-	
		MS -240522098-01	75 - 125	97.6	-	
Sulfate	QC73646	Duplicate -240522082-05	0 - 20	-	2.4	EPA 300.0
		LCS	90 - 110	97.6	-	
		MS -240522082-05	75 - 125	94.9	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
 mg/L = Milligrams Per Liter or PPM
 ug/L = Micrograms Per Liter or PPB
 mpn/100 mls = Most Probable Number Index/ 100 mls
 Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
 ND = Not Detected at Reporting Limit.



Drinking Water Chain of Custody

Report To Information		Bill To Information (If different from report to)		Project Information	
Company Name: RESPEC	Company Name: _____	PWSID: _____		System Name: _____	
Contact Name: Brian Elkins	Contact Name: _____	Address: _____		Compliance Samples: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Address: 5540 Tech Center Dr.	City: Colorado Springs	State: _____	Zip: _____	Send Results to CDPHE: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Phone: 719-227-0072	City: _____	State: _____	Zip: _____	Task Number: CAL Task	
Email: brian.elkins@respec.com	Phone: _____	PO Number: _____		240523003	
Sample Collector: Brian Elkins	C/S Info: _____		C/JF		

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

PHASE I, II, V Drinking Water Analyses (check requested analysis)		Subcontract Analyses																													
Date	Time	Client Sample ID / Sample Pt. ID	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	522 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index (Circle)	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226/228	Radon	Uranium	Chlorite		
05/22	0939	1 Denver																													
05/22	0951	2 Dawson																													
		- Project is Hay Creek Dev with labels. CF Slabiah																													
		* collection times																													
		from P/A bottles																													
Instructions:		Analyze for the constituents on attached sheet																													
Additional 250 mL impreserved bottle received for each water sample																															
Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24	Relinquished By: _____	Date/Time: _____	Received By: Jed X	Date/Time: 5/23/24

EPC Confined Aquifer Sampling Requirements

**CAL Task
240523003**

Field Measurements

pH

Temp

CJF

Radionuclides

Radium 226 and Radium 228

Gross alpha/Beta

Inorganics

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cyanide (Total)

Fluoride

Mercury

Nitrate

Nitrite

Selenium

Thallium

Secondary MCLs

Aluminum

Chloride

Corrosivity

Iron

Manganese

Silver

Sulfate

Zinc

TDS

Bacteriological:

Total Coliform

Analytical Results

TASK NO: 240523003

Report To: Brian Elkins
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003
Client PO:
Client Project: Hay Creek

Date Received: 5/23/24
Date Reported: 6/18/24
Matrix: Water - Drinking

Customer Sample ID 1 Denver
Sample Date/Time: 5/22/24 9:39 AM
Lab Number: 240523003-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	64.8 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Calcium as CaCO3	63.2 mg/L	EPA 200.7	0.1 mg/L	5/29/24	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Langelier Index	-1.31 units	SM 2330-B	units	5/30/24	-	DPL
pH	6.86 units	SM 4500-H-B	0.01 units	5/23/24	-	ARH
Temperature	20 °C	SM 4500-H-B	1 °C	5/23/24	-	ARH
Total Alkalinity	64.8 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/29/24	QC73687	KJP
Total Dissolved Solids	117 mg/L	SM 2540-C	5 mg/L	5/23/24	QC73628	ISG

Abbreviations/ References:

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ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 240523003

Report To: Brian Elkins
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable
Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 240523003
Client PO:
Client Project: Hay Creek

Date Received: 5/23/24
Date Reported: 6/18/24
Matrix: Water - Drinking

Customer Sample ID 2 Dawson
Sample Date/Time: 5/22/24 9:51 AM
Lab Number: 240523003-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	67.8 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Calcium as CaCO3	68.2 mg/L	EPA 200.7	0.1 mg/L	5/29/24	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/29/24	-	KJP
Langelier Index	-1.40 units	SM 2330-B	units	5/30/24	-	DPL
pH	6.72 units	SM 4500-H-B	0.01 units	5/23/24	-	ARH
Temperature	20 °C	SM 4500-H-B	1 °C	5/23/24	-	ARH
Total Alkalinity	67.8 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/29/24	QC73687	KJP
Total Dissolved Solids	122 mg/L	SM 2540-C	5 mg/L	5/23/24	QC73628	ISG

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ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

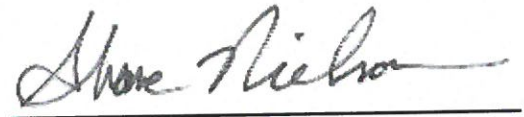
Report To: Brian Elkins
Company: RESPEC Company, LLC

Receive Date: 5/23/24
Project Name: Hay Creek

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Total Alkalinity	QC73687	Blank	ND	SM 2320-B	5/29/24
Total Dissolved Solids	QC73628	Blank	ND	SM 2540-C	5/23/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC73687	Duplicate -240522041-01	0 - 20	-	2.6	SM 2320-B
		LCS	90 - 110	97.9	-	
		LCS-2	90 - 110	101.6	-	
Total Dissolved Solids	QC73628	Duplicate -240522030-03	0 - 10	-	3.9	SM 2540-C
		LCS	85 - 115	95.3	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
 mg/L = Milligrams Per Liter or PPM
 ug/L = Micrograms Per Liter or PPB
 mpn/100 mls = Most Probable Number Index/ 100 mls
 Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

Drinking Water Chain of Custody



Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (if different from report to)		Project Information	
Company Name: RESPEC	Company Name:	PWSID:		Compliance Samples: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Contact Name: Brian Elkins	Contact Name:	Address:		Send Results to CDPHE: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Address: 5540 Tech Center Dr.	City: Colorado Springs	State: CO	Zip: 80919	Task Number (Lab Use Only):	CAL Task
Phone: 719-227-0072	City:	State:	Zip:	240523003	C-JF
Email: brian.elkins@respec.com	Phone:	PO Number:			
Sample Collector: Brian Elkins					
Sample Collector Phone: 719-433-2652					

PHASE I, II, V Drinking Water Analyses (check requested analysis)		Subcontract Analyses	
Date	Time	Client Sample ID / Sample Pt. ID	Analysis
05/22	9:39	1 Denver	Chlorite
05/22	9:51	2 Dawson	Uranium
			Radon
			Radium 226/228
			Gross Alpha/Beta
			SUVA, UV 254 (Circle)
			TOC, DOC (Circle)
			Alk/Lang. Index (Circle)
			Inorganics
			Fluoride
			Nitrite
			Nitrate
			Lead/Copper
			552.2 HAA5s
			524.2 THMs
			549.2 Diquat
			548.1 Endothal
			547 Glyphosate
			531.1 Carbamates
			525.2 SOCs-Pest
			524.2 VOCs
			515.4 Herbicides
			505 Pests/PCBs
			504.1 EDB/BCP
			Total Coliform P/A
			Residual Chlorine (mg/L)
			P/A Samples Only
			No. of Containers
			Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>
			Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>
			Temp. °C/°F <input checked="" type="checkbox"/> Y
			Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
			Date/Time: 5/23/24

- Project is Hay Creek per bottle labels. CF 5/23/24
* collection times from P/A bottles

Instructions: Analyze for the constituents on attached sheet
Additional 250 mL impregnated bottle received in each water sample

C/S Info: CF 5/23/24
Relinquished By: **Edy**
Date/Time: **5/23/24**

EPC Confined Aquifer Sampling Requirements

**CAL Task
240523003**

Field Measurements

pH

Temp

CJF

Radionuclides

Radium 226 and Radium 228

Gross alpha/Beta

Inorganics

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cyanide (Total)

Fluoride

Mercury

Nitrate

Nitrite

Selenium

Thallium

Secondary MCLs

Aluminum

Chloride

Corrosivity

Iron

Manganese

Silver

Sulfate

Zinc

TDS

Bacteriological:

Total Coliform



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 24H01988
Received: May 24, 2024
Reported: Jun 17, 2024
Purchase Order No.
None Received

Customer ID: 05377Z
Account ID: Z01034

Rebecca Manzanaras
Colorado Analytical Laboratories, Inc.
10411 Heinz Way
Commerce City, CO 80640

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

By: *Halley Jones For*
Roxanne Sullivan
Analytical Laboratories Director

Customer ID: 05377Z
 Account ID: Z01034
ANALYTICAL REPORT

Rebecca Manzanaras
 Colorado Analytical Laboratories, Inc.

Lab Sample ID		24H01988-001						
Customer Sample ID		240523003-01D - Hay Creek - 1 Denver sampled on 05/22/24 @ 0939						
Parameter	Units	Code	Precision*		Detection Limit	Method	Analysis Date / Time	Analyst
			Result	+/-				
Gross Alpha	pCi/L	T	5.3	2.6	1.5	SM 7110 B	06/10/24 @ 0754	JR
Gross Beta	pCi/L	T	5.4	2.8	1.9	SM 7110 B	06/10/24 @ 0754	JR

Lab Sample ID		24H01988-002						
Customer Sample ID		240523003-01E - Hay Creek - 1 Denver sampled on 05/22/24 @ 0939						
Parameter	Units	Code	Precision*		Detection Limit	Method	Analysis Date / Time	Analyst
			Result	+/-				
Radium-226	pCi/L	T	2.5	0.6	0.2	SM 7500-Ra B	06/04/24 @ 1239	KT
Radium-228	pCi/L	T	3.5	0.8	0.2	EPA pg.19	06/04/24 @ 1610	KR

Sample 240523003-02E required filtering for radium-228 analysis.

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

Customer ID: 05377Z
 Account ID: Z01034
ANALYTICAL REPORT

Rebecca Manzanares
 Colorado Analytical Laboratories, Inc.

Lab Sample ID		24H01988-003						
Customer Sample ID		240523003-02D - Hay Creek - 2 Dawson sampled on 05/22/24 @ 0951						
Parameter	Units	Code	Precision*		Detection Limit	Method	Analysis	
			Result	+/-			Date / Time	Analyst
Gross Alpha	pCi/L	T	9.0	3.2	1.5	SM 7110 B	06/10/24 @ 0756	JR
Gross Beta	pCi/L	T	5.9	2.8	1.9	SM 7110 B	06/10/24 @ 0756	JR

Lab Sample ID		24H01988-004						
Customer Sample ID		240523003-02E - Hay Creek - 2 Dawson sampled on 05/22/24 @ 0951						
Parameter	Units	Code	Precision*		Detection Limit	Method	Analysis	
			Result	+/-			Date / Time	Analyst
Radium-226	pCi/L	T	2.4	0.6	0.2	SM 7500-Ra B	06/04/24 @ 1241	KT
Radium-228	pCi/L	T	2.9	0.7	0.2	EPA pg.19	06/04/24 @ 1433	KR

Sample 240523003-02E required filtering for radium-228 analysis.

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

**HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY**

Date: 06/10/2024

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C11-006 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11-006 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap

$$\text{Calculation: } \frac{(334.8) - (0.200)}{57.4} - \frac{(3.7) - (0.200)}{57.4} \times 100 = 115\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

<u>24H01931</u>	<u>24H02031</u>
<u>24H01958</u>	<u>24H02032</u>
<u>24H01975</u>	<u>24H02039</u>
<u>24H01976</u>	<u>24H02040</u>
<u>24H01988</u>	_____
<u>24H01992</u>	_____
<u>24H01993</u>	_____
<u>24H01994</u>	_____
<u>24H01995</u>	_____
<u>24H02019</u>	_____

Evaluator:

Handwritten Signature _____

06/13/2024

Date