

# Colorado Division of Water Resources

Monitoring Well  
12/10/08

## Colorado's Well Permit Search

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. ([Full Disclaimer](#))

#### Permit Canceled

**Receipt:** 3623714B  
**Permit #:** 276134-  
**Well Name / #:**  
**Designated Basin:** UPPER BLACK SQUIRREL CREEK  
**Case Number:**  
**WDID:**

**Division:** 2  
**Water District:** 10  
**County:** EL PASO  
**Management District:** UPPER BLACK SQUIRREL

[Help](#)

Last Refresh:

#### [-] Imaged Documents - Permit File

Document Name	Date Imaged	Annotated
<a href="#">Correspondence, Memos, Findings &amp; Hearings</a>	01/29/2008	No
<a href="#">Well Construction</a>	01/28/2008	No
<a href="#">Well Permit</a>	01/23/2008	Yes
<a href="#">Denver Basin Exempt Well Data Sheet</a>	01/22/2008	No
<a href="#">Correspondence, Memos, Findings &amp; Hearings</a>	01/22/2008	No
<a href="#">Maps, Deeds &amp; Legal Descriptions</a>	01/22/2008	No
<a href="#">Monitoring &amp; Observation Application</a>	01/22/2008	No
<a href="#">Well Permit</a>	01/22/2008	No

#### [-] Applicant/Contact

Applicant/Contact Name	Mailing Address	City/State/Zip
SANTA FE SPRINGS LLC	31 E PLATTE AVE # 200	COLORADO SPRINGS, CO 80903

#### [-] Location Information

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
NW	NW	10	13S	64W	Sixth	1000 N 230 W

**Northing (UTM y):** 4309866.5      **Easting (UTM x):** 538835.0  
**Location Accuracy:** Spotted from section lines

##### Subdivision Name

##### Filing Block Lot

##### Parcel ID:

##### Acres in Tract:

#### [-] Permit Details

**Date Issued:** 12/04/2007      **Date Expires:** 12/04/2009

**Uses** (See [Imaged Documents](#) for more information)

**General Use(s):** Monitoring/Sampling

**Aquifer(s):** ARAPAHOE

##### Special Use:

##### Area which may be irrigated:

##### Annual volume of appropriation:

##### Statute:

**Cross Reference Permit(s):** **Permit Number**      **Receipt**  
    66937-F-      3625367B

**Comments:** AQUIFER DEPTH INTERVAL WAS AMENDED ON 12/17/2007 BASED ON SITE SPECIFIC INFORMATION (RESISTIVITY LOG) PROVIDED BY THE CONSULTANT. MPS 12/17/2007. PERMIT CONDITION OF APPROVAL NO. 12 IS WAIVED. MPS 12/20/2007

#### [-] Construction/Usage Details

Well Construction Date: 12/21/2007			Pump Installation Date:		
Well Plugged:			1st Beneficial Use:		
Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate
6770	1390	938	1380		
Lic # Name		Address		Phone Number	
1148 KUNAU, TIMOTHY R.		23945 LUCKY LN CALHAN, CO 80808		7196833720	

#### [-] Application/Permit History

Permit Canceled	03/18/2008
Well Constructed	12/21/2007
Permit Issued	12/04/2007
Application Received	12/03/2007

**Disclaimer**

**\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.**

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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Form No.  
GWS-25

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

LIC

WELL PERMIT NUMBER 276134 - -  
DIV. 8 WD 10 DES. BASIN 4 MD 12

APPLICANT

SANTA FE SPRINGS LLC  
31 E PLATTE AVE # 200  
COLORADO SPRINGS, CO 80903-

(719) 442-2376

APPROVED WELL LOCATION

EL PASO COUNTY  
NW 1/4 NW 1/4 Section 10  
Township 13 S Range 64 W Sixth P.M.

DISTANCES FROM SECTION LINES

1000 Ft. from North Section Line  
230 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

**PERMIT TO CONSTRUCT A WELL (AMENDED)**

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 ensure 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 37-90-105(1)(d). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 5) Production is limited to the Arapahoe aquifer which is located <sup>440</sup> 820 feet below land surface and extends to a depth of <sup>1398</sup> 1410 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 6) Records of any water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Upper Black Squirrel Creek Ground Water Management District and the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well shall be constructed within 300 feet of the location specified on this permit.
- 10) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 11) A Well Construction and Test Report (Form GWS-31), including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 12) If this well is to be converted to a production well, then the entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules and approval of the production interval must be obtained from the State Engineer's Office prior to installing casing.

Note: The Depth Interval approved for the Arapahoe aquifer was modified based on site-specific information. MPS 12/17/2007

NOTE: Permit Condition of Approval No. 12 has been waived pursuant to Rule 9A of the Statewide Non-Tributary Ground Water Rules. MPS 01/23/2008

APPROVED  
SMJ

State Engineer

DATE ISSUED 12-04-2007

By

EXPIRATION DATE 12-04-2009

Receipt No. 3623714B

WELL CONSTRUCTION AND TEST REPORT					For Office Use Only																																																																																																										
FORM NO. GWS-31 04/2005		STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 868-3587 Main (303) 868-3581 Fax (303) 868-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>			<b>RECEIVED</b>  JAN 16 2008  RESOURCES ENGINEER S.D.																																																																																																										
1. WELL PERMIT NUMBER: <u>276134</u>																																																																																																															
2. WELL OWNER INFORMATION NAME OF WELL OWNER: <u>Santa Fe Springs LLC</u>																																																																																																															
MAILING ADDRESS: <u>31 E Platte Ave #200</u>																																																																																																															
CITY: <u>Colorado Springs</u> STATE: <u>CO</u> ZIP CODE: <u>80903</u>																																																																																																															
TELEPHONE NUMBER: <u>(719) 442-2376</u>																																																																																																															
3. WELL LOCATION AS DRILLED: <u>NW 1/4, NW 1/4, Sec. 10, Twp. 13</u> <input type="checkbox"/> N or <input checked="" type="checkbox"/> S, Range <u>64</u> <input type="checkbox"/> E or <input checked="" type="checkbox"/> W DISTANCES FROM SEC. LINES: <u>1000</u> ft. from <input checked="" type="checkbox"/> N or <input type="checkbox"/> S section line and <u>230</u> ft. from <input type="checkbox"/> E or <input checked="" type="checkbox"/> W section line SUBDIVISION: _____, LOT _____, BLOCK _____, FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 STREET ADDRESS AT WELL LOCATION: _____ Northing: _____																																																																																																															
4. GROUND SURFACE ELEVATION <u>6772</u> feet DATE COMPLETED <u>12-21-07</u> TOTAL DEPTH <u>1390</u> feet				DRILLING METHOD <u>mud rotary</u> DEPTH COMPLETED <u>1380</u> feet																																																																																																											
5. GEOLOGIC LOG: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Type</th> <th>Grain Size</th> <th>Color</th> <th>Water Loc.</th> </tr> </thead> <tbody> <tr><td>0-60</td><td>sand</td><td>coarse</td><td></td><td></td></tr> <tr><td>60-100</td><td>sand blue shale clay</td><td></td><td></td><td></td></tr> <tr><td>100-140</td><td>blue gray shale w/silty sand</td><td></td><td></td><td></td></tr> <tr><td>140-150</td><td>clay sand</td><td></td><td></td><td></td></tr> <tr><td>150-200</td><td>clay w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>200-280</td><td>clay and shale w/sand</td><td></td><td></td><td></td></tr> <tr><td>280-400</td><td>sand white w/clay trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>400-500</td><td>clay, sand white-tan w trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>500-600</td><td>clay, grading to silty sand, trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>600-700</td><td>clay sticky w/sand &amp; silt stringers</td><td></td><td></td><td></td></tr> <tr><td>700-800</td><td>clay soft w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>800-900</td><td>clay soft sticky w/sand stringers, coal</td><td></td><td></td><td></td></tr> <tr><td>900-960</td><td>clay + sand within coal seams</td><td></td><td></td><td></td></tr> <tr><td>960-1000</td><td>sand tan coarse w/shale clay</td><td></td><td></td><td></td></tr> <tr><td>1000-1100</td><td>sand w/dark gray clay mushy</td><td></td><td></td><td></td></tr> <tr><td>1100-1200</td><td>sand white silty w/soft clay</td><td></td><td></td><td></td></tr> <tr><td>1200-1300</td><td>clay shale, mushy w/sand tan-white</td><td></td><td></td><td></td></tr> <tr><td>1300-1390</td><td>clay w/stringers silty sand</td><td></td><td></td><td></td></tr> </tbody> </table>					Depth	Type	Grain Size	Color	Water Loc.	0-60	sand	coarse			60-100	sand blue shale clay				100-140	blue gray shale w/silty sand				140-150	clay sand				150-200	clay w/sand stringers				200-280	clay and shale w/sand				280-400	sand white w/clay trace coal strgs				400-500	clay, sand white-tan w trace coal strgs				500-600	clay, grading to silty sand, trace coal strgs				600-700	clay sticky w/sand & silt stringers				700-800	clay soft w/sand stringers				800-900	clay soft sticky w/sand stringers, coal				900-960	clay + sand within coal seams				960-1000	sand tan coarse w/shale clay				1000-1100	sand w/dark gray clay mushy				1100-1200	sand white silty w/soft clay				1200-1300	clay shale, mushy w/sand tan-white				1300-1390	clay w/stringers silty sand				6. HOLE DIAM (in.) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>From (ft)</th> <th>To (ft)</th> </tr> </thead> <tbody> <tr><td><u>17.50</u></td><td><u>0</u></td><td><u>137</u></td></tr> <tr><td><u>12 1/4</u></td><td><u>137</u></td><td><u>1390</u></td></tr> </tbody> </table>				From (ft)	To (ft)	<u>17.50</u>	<u>0</u>	<u>137</u>	<u>12 1/4</u>	<u>137</u>	<u>1390</u>
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11. DISINFECTION: Type <u>Sodium Hypochlorite</u> Amt. Used <u>(2) 55 gal drums (10%)</u>																																																																																																															
12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39-Supplemental Well Test.																																																																																																															
TESTING METHOD Static Level <u>6660</u> ft. Date/Time measured: <u>12-21-07</u> Production Rate <u>150</u> gpm. Pumping Level <u>1094</u> ft. Date/Time measured: _____ Test Length (hrs) <u>12 hrs</u> Remarks: _____																																																																																																															
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]																																																																																																															
Company Name: <u>Kunau Drilling LLC</u>					Phone: <u>719-683-3720</u>		License Number: <u>1148</u>																																																																																																								
Mailing Address: <u>23945 Lucky Lane</u>					<u>Calhan CO 80808</u>																																																																																																										
Signature: <u>[Signature]</u>			Print Name and Title: <u>Tim Kunau, manager</u>			Date: <u>1-15-08</u>																																																																																																									

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JAN 16 2008

WATER RESOURCES  
STATS ENGINEER  
COLO.

Formation	Depth	Interval	Permit No 276134 / Sample Descriptions
		0-135	SS cong-ark ltyel-wh sbang-sbrd psrt w/ntbd SH
	137		Surface Casing
		137-200	SH gy hd firm w/cong SS tan-wh
Denver-Top	276	200-400	SS gy-wh vf-mg uncon mica w/SH gy-gn sft biky clystn sticky, coal strgs
		400-650	SS wh-tan f-vfg uncon-fn cly mtrx mica w/lt coal strgs & SH strgs gy-tan clystn
		650-750	SS aa wh-tan mgw/ncr SH clystn gy sft mushy sity w/ntbd slst strgs
		750-890	SH aa decr w/SS clr-kgv f-vfg uncon sbang Clystn strgs
Denver-Base	886		
		890-950	SH aa clystn sft sity w/SS aa m-og sity w/ thin coal seams
Arapahoe-Top	940		
		950-1100	SS wh-tan f-vfg uncon felds cly sbang w/clystn & SH m-dkgy sft arg, coal seams
		1100-1300	SS vfg-mg uncon sbang felds w/sltst aa & dkgy clystn mushy-sft
		1300-1390	SH gy-brn biky sity w/clystn sticky mgy w/SS tan-wh vf-og shly vally w/ntbd slst strgs
Arapahoe-Base	1398		
Total Depth	1390		

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JAN 16 2008

WATER RESOURCES  
STATE ENGINEER  
C.O.O.

Formation	Depth	Interval	Permit No. 276134 / Sample Description
		0-60	sand coarse grained
		60-100	sand w/blue shale, clay
		100-140	blue-gray shale w/silty sand
	137		Surface Casing
		140-150	clay sand
		150-200	clay w/sand stringers
		200-280	clay and shale w/sand
Denver-Top	276		
		280-400	sand white w/clay; trace coal strgs
		400-500	clay and sand white-tan w/trace coal strgs
		500-600	clay grading to silty sand and tr coal strgs
		600-700	clay sticky w/sand and silt stringers
		700-800	clay soft w/sand stringers
		800-900	clay soft sticky w/sand stringers & trace coal
Denver-Base	886		
		900-960	clay and sand w/ thin coal seams
Arapahoe-Top	966		
		960-1000	sand tan coarse w/shaley clay
		1000-1100	sand w/dark gray clay mushy
		1100-1200	sand white silty w/ soft clay
		1200-1300	clay shaleyand mushy w/sand tan-white
		1300-1390	clay w/stringers silty sand
Arapahoe-Base	1394		
Total Depth	1390		



## DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF WATER RESOURCES

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

December 20, 2007

Santa Fe Springs, LLC  
31 East Platte Ave., Suite 200  
Colorado Springs, Colorado 80903

Re: Request for Waiver of Geophysical Logging Requirement, Permit No. 276134

On December 19, 2007 your consultant, Robert Say emailed a request to waive the geophysical logging requirement attached to Well Permit 276134.

The proposed location for Permit No. 276134 is located within 1,320 feet of an existing well constructed under Permit No. 276133, for which an acceptable geophysical log is available.

Pursuant to Rule 9A of the Statewide Nontributary Ground Water Rules the geophysical logging requirement attached to permit No. 276134 (Condition of Approval 12) can be waived.

**This waiver does not abrogate the well owner's or well construction contractor's responsibility to fulfill all requirements of any applicable court decree.**

The original permit file is currently unavailable to amend the permit conditions and waive the geophysical logging requirement on the permit. This letter will serve as your authorization to forego geophysically logging the well to be constructed under permit No. 276134. When the conditions are amended on the permit, I will forward a copy to you.

Please feel free to contact me if you have any questions or require additional information.

Sincerely,

Michael P Schaub  
Geologist, Geotechnical Services Branch  
Colorado Division of Water Resources

Attachment

cc: Permit File  
Robert Say

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589  
[www.water.state.co.us](http://www.water.state.co.us)

**Schaubs, Michael**

1000N 250W  
1000N 230

**From:** Robert Say [sayrbt@msn.com]

**Sent:** Thursday, December 20, 2007 9:52 PM

**To:** Schaubs, Michael

**Subject:** Request for Waiver of Geophysical Logging Requirement, Permit No. 276134

December 19, 2007

Division of Water Resources  
Office of the State Engineer  
1313 Sherman St., Ste.818  
Denver, CO 80203  
303-866-8589

**Re:** Request for Waiver of Geophysical Logging Requirement, Permit No. 276134  
Santa Fe Springs, LLC  
31 East Platte Ave., Ste.200  
Colorado Springs, CO 80903  
719-314-0181

Michael Schaubs:

Santa Fe Springs, LLC requests a waiver of the geophysical logging requirement as outlined in Rule 9A of the Statewide Nontributary Ground Water Rules for Permit No. 276134 [1000'FNL 230'FWL NW NW Sec.10-T13S-R64W, El Paso Co., CO]. Well Permit No. 276134 was spudded on 12/18/07 and should reach a total depth of 1390' on 12/21/07. Santa Fe Springs, LLC drilled the Well Permit No. 276133 [1000'FNL 250'FWL NW NW Sec.10-T13S-R64W, El Paso Co., CO] to total depth of 2036'. The Well Permit No. 276133 was logged by Phoenix Survey, Inc., Brighton, CO on 12/11/07 and both electronic and hard copy versions have been submitted to the Division of Water Resources. Well Permit No.276134 is within the required 1320' of the previously logged Well Permit No. 276133 [20' to the west of Well Permit No. 276133] as per Rule 9A.

If you need further information please contact me by email, or at 720-273-0155.

Sincerely,

Robert Say  
Consulting Geologist  
Santa Fe Springs, LLC

12/20/2007



SB5OUT1

Santa Fe Springs  
3623714B

LOCATION: NW1/4 OF NW1/4 OF SEC. 10, T.13S., R.64W. (1000 NSL, 230 WSL)  
LOCATION IS WITHIN THE UPPER BLACK SQUIRREL DESIGNATED GROUND WATER BASIN

Ground Elevation: 6770

Number of Acres: 1

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	----	----	----	----	----	----	---
LOWER DAWSON	----	----	----	----	----	----	---
DENVER	5872	6687	197.7	898	83	0.34	NNT
UPPER ARAPAHOE	5362	5850	217.9	1408	920	0.37	NT
LOWER ARAPAHOE	----	----	----	----	----	----	---
LARAMIE-FOX HILLS	4747	5033	217.7	2023	1737	0.33	NT

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

RECEIVED

DEC 03 2007

WATER RESOURCES  
STATE ENGINEER  
S&L

**PLW Inc**  
**31 E. Platte Ave. Suite 200**  
**Colorado Springs, CO 80903**  
**Ph. (719) 442-2376 / Fax (719) 314-0184**

November 29, 2007

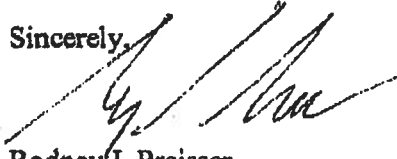
To Whom It May Concern:

This letter serves as formal notification that Dr. Purshottam Dass has full legal authorization to sign and amend water related applications made to the State of Colorado on behalf of PLW Inc. or Ellicott Springs, LLC or Santa Fe Springs, LLC or Triple Bar Ranch, LLC or Rodney J. Preisser.

All of the above entities are owned by Mr. Rodney Preisser and Dr. Dass is hereby authorized to sign and amend applications as an agent for all of the above.

If you have any further questions on this matter, please contact me at my office phone: (719) 442-2376 or on my cell phone at: (719) 339-9111.

Sincerely,



Rodney J. Preisser  
Manager / Owner

# GEOTECHNICAL SERVICES BRANCH

## HYDROGEOLOGICAL REPORT & RECOMMENDATIONS

Applicant: \_\_\_\_\_ Permit No./Receipt No.: 276134

Location: \_\_\_\_\_ County: El Paso.

Date Received by DWR: \_\_\_\_\_

Date Received by Geotech. Branch: \_\_\_\_\_

Aquifer to be Utilized: \_\_\_\_\_

Remarks: \_\_\_\_\_

	<u>Elevation</u>	<u>Depth.</u>
<u>Denver Top</u>	<u>6566</u>	<u>204 Base of Alluvium</u>
<u>Base</u>	<u>5889</u>	<u>876 881</u>

<u>Arapahoe Top</u>	<u>58283</u>	<u>947</u>
<u>Base</u>	<u>5393</u>	<u>1,377</u>

Reference geophysical logs to 64018-F, 48745-F, 62535-F.

Completion Recommendations: \_\_\_\_\_

Data Sources: \_\_\_\_\_

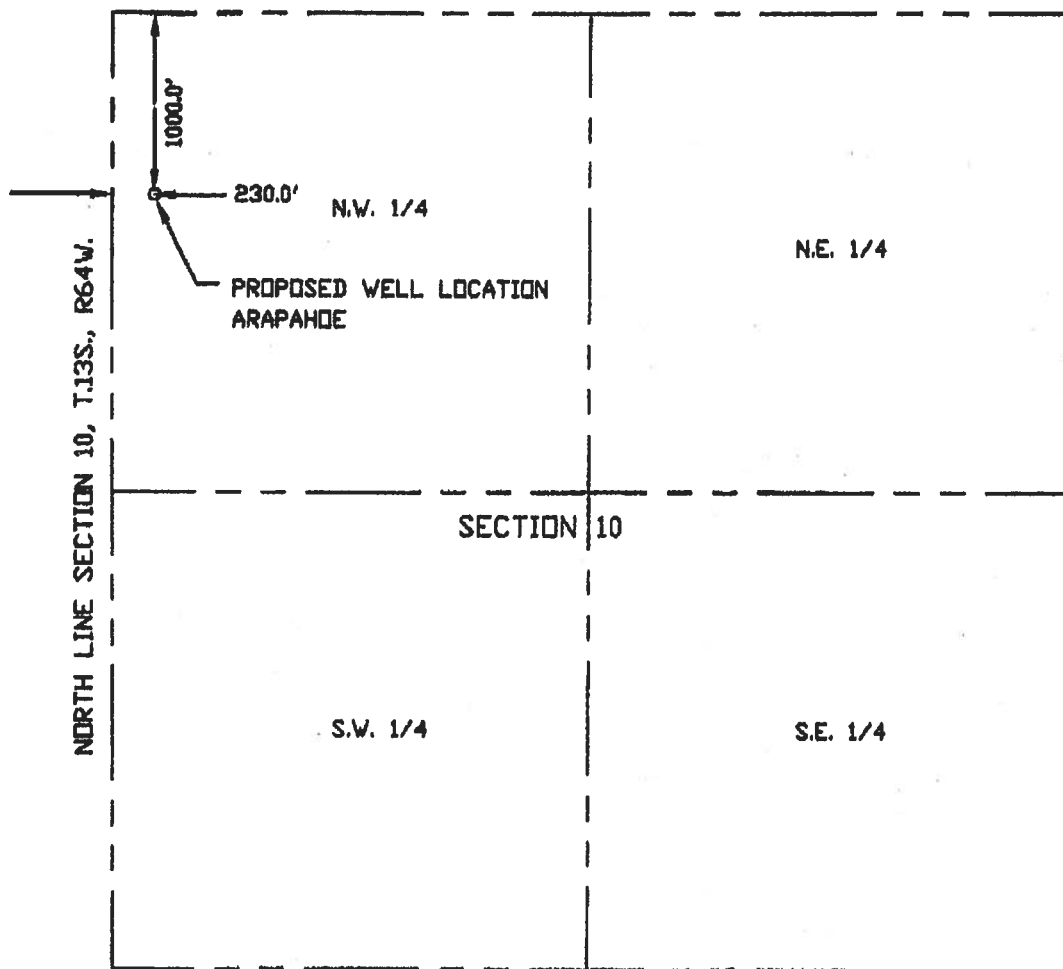
Investigator: [Signature] Report Date: 12/5/2007

RECEIVED

DEC 03 2007

WATER RESOURCES  
STATE ENGINEER  
BOLD

NORTH LINE SECTION 10, T.13S., R.64W.



SCALE 1"=1000'



4575 GALLEY ROAD SUITE 200  
COLORADO SPRINGS COLORADO  
(719) 597-8900 80915

07-1102 11-30-07 JLK

COLORADO DIVISION OF WATER RESOURCES  
DEPARTMENT OF NATURAL RESOURCES  
1313 SHERMAN ST., RM 818, DENVER CO 80203  
phone - info: (303) 868-3587 main: (303) 868-3581  
Fax: (303) 868-3588 http://www.water.state.co.us

## MONITORING/OBSERVATION

### Water Well Permit Application

Review instructions on reverse side prior to completing form.  
The form must be completed in black or blue ink or typed.

#### 1. Well Owner Information

Name of well owner

Santa Fe Springs, LLC

Mailing address

31 E. PLATTE AVE. #200

City

Colorado Springs

State

CO

Zip code

80903

Telephone #

( ) 714-442-2376

E-Mail (Optional)

#### 2. Type Of Application (check applicable boxes)

☐ Use existing well

☐ Replacement for existing monitoring well:

☒ Construct new well

Permit no.:

☐ Other:

#### 3. Refer To (if applicable)

Monitoring hole acknowledgment

Well name or #

MH-

#### 4. Location Of Proposed Well

County

EL PASO

NW

1/4 of the

NW

1/4

Section

10

Township

13

N or S

☒ N

Range

64

E or W

☒ E

Principal Meridian

6th PM

Distance of well from section lines (section lines are typically not property lines)

1000

ft. from

☒ N

☐ S

230

ft. from

☐ E

☒ W

For replacement wells only - distance and direction from old well to new well

feet

direction

Well location address (Include City, State, Zip) ☐ Check if well address is same as item 1.

Optional: GPS well location information in UTM format  
You must check GPS unit for required settings as follows:

Format must be UTM

☐ Zone 12 or ☐ Zone 13

Units must be Meters

Datum must be NAD83

Unit must be set to true north

Was GPS unit checked for above? ☐ YES

Easting

Northing

Remember to set Datum to NAD83

#### 5. Property Owner Information

Name of property owner

Cheuk Kwan

Mailing address

3004 Cottonwood Ct.

City

Fullerton

State

CA

Zip Code

92835

Telephone #

( )

Office Use Only

Form GWS-46 (06/2006)

RECEIVED

DEC 03 2007

WATER RESOURCES  
STATE ENGINEER  
CALIF.

#### 6. Use Of Well

Use of this well is limited to monitoring water levels  
and/or water quality sampling

#### 7. Well Data (proposed)

Total depth

± 1400 feet  
(up to bottom)

Aquifer

Arapahee

#### 8. Consultant Information (if applicable)

Name of contact person

Purushottam Dass

Company name

PLW, Inc.

Mailing address

31 E. PLATTE AVE #200

City

Colorado Spngs. CO

State

Zip Code

80903

Telephone #

( ) 303-699-6502

#### 9. Proposed Well Driller License #(optional):

#### 10. Signature Of Well Owner, Consultant 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

Print name & title

PURUSHOTTAM DASS, agent.

11.30.07

Office Use Only

USGS map name

DWR map no.

Surface elev.

62A

6770

Receipt area only

Trans Number: 3623714 B  
12/3/2007 11:30:34 AM  
James Martin (19)  
Total Trans Amt: \$200.00  
CREDIT CARD  
Tender Amount: \$200.00

DIV 8 WD 10 BA 4 MD 12

Form No. GWS-25

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

*Arapahoe  
Discharge*

1148

WELL PERMIT NUMBER 66937 -F-  
DIV. 8 WD 10 DES. BASIN 4 MD 12

APPLICANT

SANTA FE SPRINGS LLC  
31 E PLATTE AVE # 200  
COLORADO SPRINGS, CO 80903-

(719) 442-2376

APPROVED WELL LOCATION

EL PASO COUNTY  
NW 1/4 NW 1/4 Section 10  
Township 13 S Range 64 W Sixth P.M.

DISTANCES FROM SECTION LINES

1000 Ft. from North Section Line  
230 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

CONDITIONS OF APPROVAL

Page 1 of 2

- 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 ensure 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 37-90-107(7) for use of an existing well (constructed under permit no. 276134) and the Findings and Order of the Colorado Ground Water Commission dated March 3, 2004, for Determination of Water Right No. 458-BD.
- 4) The pumping rate of this well shall not exceed 1000 GPM.
- 5) The annual withdrawal of ground water from this well shall not exceed 1600 acre-feet, subject to the total annual withdrawal limitations and conditions as specified by the above referenced Order of the Commission.
- 6) The use of ground water from this well is limited to domestic use, irrigation, commercial, industrial, recreation and livestock purposes. The place of use shall be limited to the 6955.31 acre land area claimed in the above described Order of the Commission.
- 7) This well must be constructed to withdraw water from only the Arapahoe aquifer. The top of the Arapahoe aquifer is located approximately 920 feet below the ground surface. The bottom of the Arapahoe aquifer is located approximately 1410 feet below the ground surface. Plain casing must be installed and grouted to prevent the diversion of water from other aquifers and the movement of water between aquifers.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well shall be constructed within 200 feet of the location specified on this permit. This well shall not be located within 600 feet of another large-capacity well completed in the Arapahoe aquifer.
- 10) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 11) A totalizing flow meter or Commission approved measuring device must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (collected at least annually) and submitted to the Upper Black Squirrel Creek Ground Water Management District and the Ground Water Commission upon request.
- 12) No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.

APPROVED  
SMJ

State Engineer

*David Wolfe*

By

*Keith Vander Hout*

Receipt No. 3625367B

DATE ISSUED 03-18-2008

EXPIRATION DATE 03-18-2009

**CONDITIONS OF APPROVAL**

13) Issuance of this permit cancels permit no. 276134.

14) NOTE: The geophysical log submitted with permit no. 276133 may be used to satisfy the geophysical logging requirement of 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.

NOTE: This well is located within a Ground Water Management District where local District Rules may apply to the withdrawal of designated ground water currently authorized under this permit.

WELL CONSTRUCTION AND TEST REPORT					For Office Use Only																																																																																																										
FORM NO. GWS-31 04/2005		STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 868-3587 Main (303) 868-3581 Fax (303) 868-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>			<b>RECEIVED</b>  JAN 16 2008  RESOURCES ENGINEER																																																																																																										
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4. GROUND SURFACE ELEVATION <u>6772</u> feet DATE COMPLETED <u>12-21-07</u> TOTAL DEPTH <u>1390</u> feet				DRILLING METHOD <u>mud rotary</u> DEPTH COMPLETED <u>1380</u> feet																																																																																																											
5. GEOLOGIC LOG: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Type</th> <th>Grain Size</th> <th>Color</th> <th>Water Loc.</th> </tr> </thead> <tbody> <tr><td>0-60</td><td>sand</td><td>coarse</td><td></td><td></td></tr> <tr><td>60-100</td><td>sand blue shale clay</td><td></td><td></td><td></td></tr> <tr><td>100-140</td><td>blue gray shale w/silty sand</td><td></td><td></td><td></td></tr> <tr><td>140-150</td><td>clay sand</td><td></td><td></td><td></td></tr> <tr><td>150-200</td><td>clay w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>200-280</td><td>clay and shale w/sand</td><td></td><td></td><td></td></tr> <tr><td>280-400</td><td>sand white w/clay trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>400-500</td><td>clay, sand white-tan w trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>500-600</td><td>clay, grading to silty sand, trace coal strgs</td><td></td><td></td><td></td></tr> <tr><td>600-700</td><td>clay sticky w/sand + silt stringers</td><td></td><td></td><td></td></tr> <tr><td>700-800</td><td>clay soft w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>800-900</td><td>clay soft, sticky w/sand stringers, coal</td><td></td><td></td><td></td></tr> <tr><td>900-960</td><td>clay + sand w/thin coal seams</td><td></td><td></td><td></td></tr> <tr><td>960-1000</td><td>sand tan coarse w/shaley clay</td><td></td><td></td><td></td></tr> <tr><td>1000-1100</td><td>sand w/dark gray clay mushy</td><td></td><td></td><td></td></tr> <tr><td>1100-1200</td><td>sand white silty w/soft clay</td><td></td><td></td><td></td></tr> <tr><td>1200-1300</td><td>clay shaley, mushy w/sand tan-white</td><td></td><td></td><td></td></tr> <tr><td>1300-1390</td><td>clay w/stringers silty sand</td><td></td><td></td><td></td></tr> </tbody> </table>					Depth	Type	Grain Size	Color	Water Loc.	0-60	sand	coarse			60-100	sand blue shale clay				100-140	blue gray shale w/silty sand				140-150	clay sand				150-200	clay w/sand stringers				200-280	clay and shale w/sand				280-400	sand white w/clay trace coal strgs				400-500	clay, sand white-tan w trace coal strgs				500-600	clay, grading to silty sand, trace coal strgs				600-700	clay sticky w/sand + silt stringers				700-800	clay soft w/sand stringers				800-900	clay soft, sticky w/sand stringers, coal				900-960	clay + sand w/thin coal seams				960-1000	sand tan coarse w/shaley clay				1000-1100	sand w/dark gray clay mushy				1100-1200	sand white silty w/soft clay				1200-1300	clay shaley, mushy w/sand tan-white				1300-1390	clay w/stringers silty sand				6. HOLE DIAM (in.) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>From (ft)</th> <th>To (ft)</th> </tr> </thead> <tbody> <tr><td><u>17.50</u></td><td><u>0</u></td><td><u>137</u></td></tr> <tr><td><u>12 1/4</u></td><td><u>137</u></td><td><u>1390</u></td></tr> </tbody> </table>				From (ft)	To (ft)	<u>17.50</u>	<u>0</u>	<u>137</u>	<u>12 1/4</u>	<u>137</u>	<u>1390</u>
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10. GROUTING RECORD <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Amount</th> <th>Density</th> <th>Interval</th> <th>Placement</th> </tr> </thead> <tbody> <tr><td><u>Cement</u></td><td><u>105 sacks</u></td><td><u>7 gal</u></td><td><u>0-137</u></td><td><u>pumped</u></td></tr> <tr><td><u>Cement</u></td><td><u>50 sacks</u></td><td><u>7 gal</u></td><td><u>775-938</u></td><td><u>pumped</u></td></tr> </tbody> </table>					Material	Amount	Density	Interval	Placement	<u>Cement</u>	<u>105 sacks</u>	<u>7 gal</u>	<u>0-137</u>	<u>pumped</u>	<u>Cement</u>	<u>50 sacks</u>	<u>7 gal</u>	<u>775-938</u>	<u>pumped</u>	Remarks: <u>centralizers installed every 8'</u> <u>(See attached for more info)</u>																																																																																											
Material	Amount	Density	Interval	Placement																																																																																																											
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11. DISINFECTION: Type <u>Sodium Hypochlorite</u> Amt. Used <u>(2) 55 gal drums (10%)</u>																																																																																																															
12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data submitted on Form Number GWS 39-Supplemental/Well Test.																																																																																																															
TESTING METHOD Static Level <u>660</u> ft. Date/Time measured: <u>12-21-07</u> Production Rate <u>150</u> gpm. Pumping Level <u>1094</u> ft. Date/Time measured: _____ Test Length (hrs) <u>12 hrs.</u> Remarks: _____																																																																																																															
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]																																																																																																															
Company Name: <u>Kunau Drilling LLC</u>					Phone: <u>719-683-3720</u>		License Number: <u>1148</u>																																																																																																								
Mailing Address: <u>23945 Lucky Lane</u> <u>Calhan CO 80808</u>																																																																																																															
Signature: <u>[Signature]</u>			Print Name and Title: <u>Tim Kunau, manager</u>			Date: <u>1-15-08</u>																																																																																																									



66937-F

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WATER RESOURCES  
STATE ENGINEER  
SOLO.

Formation	Depth	Interval	Permit No 276134 / Sample Descriptions
		0-135	SS cong-ark lyel-wh sbang-sbrd part w/ntbd SH
	137		Surface Casing
		137-200	SH gy hd firm w/cong SS tan-wh
Denver-Top	278	200-400	SS gy-wh vl-mg uncon mica w/SH gy-gn sft biky clystn sticky; coal strgs
		400-650	SS wh-tan f-vlg uncon-fn cly mtrx mica w/tr coal strgs & SH strgs gy-tan clystn
		650-750	SS as wh-tan mgwlnr SH clystn gy sft mushy sly w/ntbd slst strgs
		750-886	SH as decr w/SS cln-fty f-vlg uncon sbang clystn strgs
Denver-Base	886		
		886-950	SH as clystn sft sly w/SS as m-cg sly w/ thin coal seams
Arapahoe-Top	940		
		950-1100	SS wh-tan f-vlg uncon felds cly sbang w/clystn & SH m-dggy sft arg; coal seams
		1100-1300	SS vlg-mg uncon sbang felds w/sltst as & dggy clystn mushy-sft
		1300-1390	SH gy-brn biky sly w/clystn sticky mgy w/SS tan-wh vl-cg shly vaky w/ntbd slst strgs
Arapahoe-Base	1390		
Total Depth	1390		

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WATER RESOURCES  
STATE ENGINEER  
CCLO.

Formation	Depth	Interval	Permit No. 276134 / Sample Description
		0-60	sand coarse grained
		60-100	sand w/blue shale, clay
		100-140	blue-gray shale w/silty sand
	137		Surface Casing
		140-150	clay sand
		150-200	clay w/sand stringers
		200-280	clay and shale w/sand
Denver-Top	276		
		280-400	sand white w/clay; trace coal strgs
		400-500	clay and sand white-tan w/trace coal strgs
		500-600	clay grading to silty sand and tr coal strgs
		600-700	clay sticky w/sand and silt stringers
		700-800	clay soft w/sand stringers
		800-900	clay soft sticky w/sand stringers & trace coal
Denver-Base	886		
		900-960	clay and sand w/ thin coal seams
Arapahoe-Top	966		
		960-1000	sand tan coarse w/shaley clay
		1000-1100	sand w/dark gray clay mushy
		1100-1200	sand white silty w/ soft clay
		1200-1300	clay shaleyand mushy w/sand tan-white
		1300-1390	clay w/stringers silty sand
Arapahoe-Base	1394		
Total Depth	1390		

<b>COLORADO DIVISION OF WATER RESOURCES</b> <b>DEPARTMENT OF NATURAL RESOURCES</b> 1313 SHERMAN ST, RM 818, DENVER, CO 80203 phone - info: (303) 866-3587 main: (303) 866-3581 fax: (303) 866-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>		Office Use Only <div>Form GWS-45 (06/2006)</div> <div>RECEIVED</div> <div>JAN 28 2008</div> <div>WATER RESOURCES STATE ENGINEER COLO.</div>	
<b>GENERAL PURPOSE</b> <b>Water Well Permit Application</b> Review instructions on reverse side prior to completing form. The form must be completed in black or blue ink or typed.			
<b>1. Applicant Information</b> Name of applicant Santa Fe Springs, LLC Mailing address 31 E. PLATTE Ave. # 200 City Colorado Springs CO State CO Zip code 80903 Telephone # (719) 442-2376 E-mail (Optional) -		<b>6. Use Of Well (check applicable boxes)</b> Attach a detailed description of uses applied for. <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Other (describe): <input type="checkbox"/> Municipal AS per 458-BD <input type="checkbox"/> Irrigation <input type="checkbox"/> Commercial	
<b>2. Type Of Application (check applicable boxes)</b> <input type="checkbox"/> Construct new well <input checked="" type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or increase use <input type="checkbox"/> Change source (aquifer) <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:		<b>7. Well Data (proposed)</b> Maximum pumping rate 1000 gpm Annual amount to be withdrawn 1600 acre-feet Total depth See Log + 1400 feet Aquifer Arapahoe	
<b>3. Refer To (if applicable)</b> Well permit # 276134 Water Court case # Designated Basin Determination # 458-BD Well name or #		<b>8. Land On Which Ground Water Will Be Used</b> Legal Description (may be provided as an attachment): As per 458-BD (If used for crop irrigation, attach a scaled map that shows irrigated area.) A. # Acres 6955.31 B. Owner C. List any other wells or water rights used on this land:	
<b>4. Location Of Proposed Well</b> County EL PASO Township 13 Range 64 Principal Meridian 6th Distance of well from section lines (section lines are typically not property lines) 1000 ft. from NW S 230 ft. from E W For replacement wells only - distance and direction from old well to new well feet direction Well location address (include City, State, Zip) <input type="checkbox"/> Check if well address is same as in Item 1. Optional: GPS well location information in UTM format You must check GPS unit for required settings as follows: Format must be UTM <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Units must be Meters Datum must be NAD83 Unit must be set to true north Was GPS unit checked for above? <input type="checkbox"/> YES Remember to set Datum to NAD83		<b>9. Proposed Well Driller License #(optional):</b> <b>10. Signature Of Applicant(s) Or Authorized Agent</b> 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 1.14.08 Print name & title PURUSHOTTAM DASS, AGENT	
<b>5. Parcel On Which Well Will Be Located</b> (PLEASE ATTACH A CURRENT DEED FOR THE SUBJECT PARCEL) A. Legal Description (may be provided as an attachment): B. # of acres in parcel C. Owner Cheuk Kwan D. Will this be the only well on this parcel? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if no - list other wells) E. State Parcel ID# (optional):		<b>Office Use Only</b> USGS map name DWR map no. Surface elev. 6770 TO DIST. 2/12/08 2720acft geo log 4830 meter Receipt area only 600 ft x 20 ft Trans Number: 3625367 6 1/28/2008 2:25:49 PM Geoff Davis (21) Total Trans Amt: \$200.00 CHECK Check Number: 2304 Check Amount: \$200.00 Domestic, irrigation, commercial, industrial, recreation + stock DIV 8 WD 10 BA 4 MD 12	

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JAN 28 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

**PLW Inc**  
**31 E. Platte Ave. Suite 200**  
**Colorado Springs, CO 80903**  
**Ph. (719) 442-2376 / Fax (719) 314-0184**

November 29, 2007

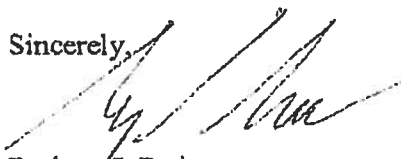
To Whom It May Concern:

This letter serves as formal notification that Dr. Purshottam Dass has full legal authorization to sign and amend water related applications made to the State of Colorado on behalf of PLW Inc. or Ellicott Springs, LLC or Santa Fe Springs, LLC or Triple Bar Ranch, LLC or Rodney J. Preisser.

All of the above entities are owned by Mr. Rodney Preisser and Dr. Dass is hereby authorized to sign and amend applications as an agent for all of the above.

If you have any further questions on this matter, please contact me at my office phone: (719) 442-2376 or on my cell phone at: (719) 339-9111.

Sincerely,



Rodney J. Preisser  
Manager / Owner

Purushottam Dass  
31 E. Platte Ave. #200  
Colorado Springs, CO 80903

Phone -- 303-699-6502  
Email -- [purudass@hotmail.com](mailto:purudass@hotmail.com)

January 15, 2008

Sandy Johnson  
Designated Basins Branch  
Colorado Division of Water Resources  
1313 Sherman St. # 818  
Denver, CO 80203

SUB: Two Well Permit Applications; Changing Monitoring Permits to Production Well Permits

Dear Sandy:

We have already received from your office two monitoring well permits--permit #276133 for a Laramie-Fox Hills well and Permit # 276134 for an Arapahoe Well. These monitoring wells are now constructed or are close to completion. The geophysical logs were obtained for the boreholes as required by the permits.

- We are herewith applying for large capacity well permits to convert these monitoring wells to be processed in accordance with the Commission approved determinations. The approved determination is 458-BD for the Arapahoe aquifer and 457-BD for the Laramie-Fox Hills aquifer. Both Arapahoe and Laramie-Fox Hills are nontributary at this location.
- Attached herewith are two applications and the \$200.00 application fee.

Please feel free to contact me if you have any questions regarding these applications.

Sincerely,



Purushottam Dass, Ph D, PE  
Santa Fe Springs, LLC

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JAN 28 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

SB5OUT1

Santa Fe Spgs  
3625367B

LOCATION: NW1/4 OF NW1/4 OF SEC. 10, T.13S., R.64W. (1000 NSL, 230 WSL)  
LOCATION IS WITHIN THE UPPER BLACK SQUIRREL DESIGNATED GROUND WATER BASIN

Ground Elevation: 6770

Number of Acres: 6955

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	----	----	----	----	----	----	---
LOWER DAWSON	----	----	----	----	----	----	---
DENVER	5872	6687	197.7	898	83	2337.72	NNT
UPPER ARAPAHOE	5362	5850	217.9	1408	920	2576.59	NT
LOWER ARAPAHOE	----	----	----	----	----	----	---
LARAMIE-FOX HILLS	4747	5033	217.7	2023	1737	2271.55	NT

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



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

March 18, 2008

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

File

Re: Request for Waiver of Geophysical Logging Requirement, Permit Application  
Receipt No 3625367B

The proposed location for existing well constructed under Permit No. 276134 and to be re-permitted with Application Receipt No. 3625367B is located within 1,320 feet of an existing well constructed under Permit No. 276133, for which an acceptable geophysical log is available.

Pursuant to Rule 9A of the Statewide Nontributary Ground Water Rules the geophysical logging requirement attached to Permit Application Receipt No. 3625367B (Condition of Approval 10) can be waived.

Please feel free to contact me if you have any questions or require additional information.

Sincerely,

Michael P Schaub  
Geologist, Geotechnical Services Branch  
Colorado Division of Water Resources

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

[www.water.state.co.us](http://www.water.state.co.us)

# Colorado Division of Water Resources

## Colorado's Well Permit Search

LFA  
Monitoring Well

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. ([Full Disclaimer](#))

#### Permit Canceled

**Receipt:** 3623714A  
**Permit #:** 276133- -  
**Well Name / #:**  
**Designated Basin:** UPPER BLACK SQUIRREL CREEK  
**Case Number:**  
**WDID:**

**Division:** 2  
**Water District:** 10  
**County:** EL PASO  
**Management District:** UPPER BLACK SQUIRREL

[Help](#) Last Refresh:

#### [-] Imaged Documents - Permit File

Document Name	Date Imaged	Annotated
<a href="#">Pump Installation</a>	01/28/2008	No
<a href="#">Well Construction</a>	01/28/2008	No
<a href="#">Denver Basin Exempt Well Data Sheet</a>	01/22/2008	No
<a href="#">Maps, Deeds &amp; Legal Descriptions</a>	01/22/2008	No
<a href="#">Correspondence, Memos, Findings &amp; Hearings</a>	01/22/2008	No
<a href="#">Monitoring &amp; Observation Application</a>	01/22/2008	No
<a href="#">Well Permit</a>	01/22/2008	No

#### [-] Applicant/Contact

Applicant/Contact Name	Mailing Address	City/State/Zip
SANTA FE SPRINGS LLC	31 E PLATTE AVE # 200	COLORADO SPRINGS, CO 80903

#### [-] Location Information

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
NW	NW	10	13S	64W	Sixth	1000 N 250 W

**Northing (UTM y):** 4309866.5    **Easting (UTM x):** 538841.1  
**Location Accuracy:** Spotted from section lines

##### Subdivision Name

Filing Block Lot

Parcel ID:

Acres in Tract:

#### [-] Permit Details

**Date Issued:** 12/04/2007    **Date Expires:** 12/04/2009

**Uses** (See [Imaged Documents](#) for more information)

**General Use(s):** Monitoring/Sampling

**Aquifer(s):** LARAMIE FOX HILLS

**Special Use:**

**Area which may be irrigated:**

**Annual volume of appropriation:**

**Statute:**

**Cross Reference Permit(s):** Permit Number **Receipt**  
 66938-F- 3625367A

**Comments:** AQUIFER DEPTH INTERVAL WAS AMENDED ON 12/17/2007 BASED ON SITE SPECIFIC INFORMATION (RESISTIVITY LOG) PROVIDED BY THE CONSULTANT. MPS 12/17/2007

#### [-] Construction/Usage Details

**Well Construction Date:** 12/16/2007    **Pump Installation Date:** 01/03/2008  
**Well Plugged:**    **1st Beneficial Use:**

Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate
6770	2035	1736	1977		

Driller	Lic #	Name	Address	Phone Number
Pump	1148	KUNAU, TIMOTHY R.	23945 LUCKY LN CALHAN, CO 80808	7196833720
Installer	1148	KUNAU, TIMOTHY R.	23945 LUCKY LN CALHAN, CO 80808	7196833720

#### [-] Application/Permit History



Permit Canceled	03/18/2008
Pump Installed	01/03/2008
Well Constructed	12/16/2007
Permit Issued	12/04/2007
Application Received	12/03/2007

**Disclaimer**

**\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.**

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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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

LIC

WELL PERMIT NUMBER 276133  
DIV. 8 WD 10 DES. BASIN 4 MD 12

APPLICANT

SANTA FE SPRINGS LLC  
31 E PLATTE AVE # 200  
COLORADO SPRINGS, CO 80903-

(719) 442-2376

APPROVED WELL LOCATION

EL PASO COUNTY  
NW 1/4 NW 1/4 Section 10  
Township 13 S Range 64 W Sixth P.M.

DISTANCES FROM SECTION LINES

1000 Ft. from North Section Line  
250 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO CONSTRUCT A WELL (AMENDED)

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 ensure 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 37-90-105(1)(d). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 5) Production is limited to the Laramie-Fox Hills aquifer which is located <sup>1416 mps</sup> 1735 feet below land surface and extends to a depth of 2023 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 6) Records of any water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Upper Black Squirrel Creek Ground Water Management District and the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well shall be constructed within 300 feet of the location specified on this permit.
- 10) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 11) A Well Construction and Test Report (Form GWS-31), including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 12) If this well is to be converted to a production well, then the entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules and approval of the production interval must be obtained from the State Engineer's Office prior to installing casing.

Note: The Depth interval approved for the Laramie-Fox Hills aquifer was modified based on site specific information. MPS 12/17/2007

APPROVED  
SMJ

State Engineer

DATE ISSUED 12-04-2007

By

EXPIRATION DATE 12-04-2009

Receipt No. 3623714A

FORM NO. GWS-31 04/2005	<b>WELL CONSTRUCTION AND TEST REPORT</b> STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>	For Office Use Only <div style="border: 1px solid black; padding: 2px; display: inline-block;">RECEIVED</div>  <div style="text-align: center;">JAN 16 2008</div> WATER RESOURCES STATE ENGINEER COLO.																																																																																																				
1. WELL PERMIT NUMBER: <u>276133</u> (Page 1)																																																																																																						
2. WELL OWNER INFORMATION NAME OF WELL OWNER: <u>Santa Fe Springs LLC</u> MAILING ADDRESS: <u>31 E Platte Ave. #200</u> CITY: <u>Colorado Springs</u> STATE: <u>CO</u> ZIP CODE: <u>80903</u> TELEPHONE NUMBER: <u>(719) 442-2376</u>																																																																																																						
3. WELL LOCATION AS DRILLED: <u>NW1/4, NW1/4, Sec. 10, Twp. 13</u> <input type="checkbox"/> N or <input checked="" type="checkbox"/> S, Range <u>64</u> <input type="checkbox"/> E or <input checked="" type="checkbox"/> W DISTANCES FROM SEC. LINES: <u>1000</u> ft. from <input checked="" type="checkbox"/> N or <input type="checkbox"/> S section line and <u>250</u> ft. from <input type="checkbox"/> E or <input checked="" type="checkbox"/> W section line SUBDIVISION: _____, LOT _____, BLOCK _____, FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Owner's Well Designation: _____ Easting: _____ Northing: _____																																																																																																						
STREET ADDRESS AT WELL LOCATION: _____																																																																																																						
4. GROUND SURFACE ELEVATION <u>6772</u> feet DATE COMPLETED <u>12-16-07</u> TOTAL DEPTH <u>2035</u> feet DRILLING METHOD <u>Rotary (mud)</u> DEPTH COMPLETED <u>1976</u> feet																																																																																																						
5. GEOLOGIC LOG: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Type</th> <th>Grain Size</th> <th>Color</th> <th>Water Loc.</th> </tr> </thead> <tbody> <tr><td>0-80</td><td>sand</td><td>coarse</td><td></td><td></td></tr> <tr><td>80-120</td><td>sand, clay, shale</td><td></td><td>(blue)</td><td></td></tr> <tr><td>120-135</td><td>shale, sand</td><td></td><td>(blue-gray)</td><td></td></tr> <tr><td>135-150</td><td>clay, sand</td><td></td><td></td><td></td></tr> <tr><td>150-220</td><td>clay w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>220-276</td><td>clay shale w/sand</td><td></td><td></td><td></td></tr> <tr><td>276-400</td><td>sand white w/clay - trace coal streaks</td><td></td><td></td><td></td></tr> <tr><td>400-500</td><td>clay sand white tan w/trace coal streaks</td><td></td><td></td><td></td></tr> <tr><td>500-650</td><td>clay grading to silty sand w/trace coal streaks</td><td></td><td></td><td></td></tr> <tr><td>650-700</td><td>clay silty w/sand + silt stringers</td><td></td><td></td><td></td></tr> <tr><td>700-800</td><td>clay soft w/sand stringers</td><td></td><td></td><td></td></tr> <tr><td>800-900</td><td>clay soft sticky w/sand streaks + trace coal</td><td></td><td></td><td></td></tr> <tr><td>900-980</td><td>clay + sand w/ thin coal seams</td><td></td><td></td><td></td></tr> <tr><td>980-1050</td><td>sand tan coarse w/shale clay</td><td></td><td></td><td></td></tr> <tr><td>1100-1200</td><td>sand w/dark gray clay, mushy</td><td></td><td></td><td></td></tr> <tr><td>1200-1400</td><td>clay, shale, mushy w/sand (tan-white)</td><td></td><td></td><td></td></tr> <tr><td>1400-1500</td><td>shale w/clay + sand stringers</td><td></td><td></td><td></td></tr> <tr><td>1500-1600</td><td>clay w/shale + sand stringers + trace coal</td><td></td><td></td><td></td></tr> <tr><td>1600-1730</td><td>clay soft shale, sand stringers</td><td></td><td></td><td></td></tr> </tbody> </table>			Depth	Type	Grain Size	Color	Water Loc.	0-80	sand	coarse			80-120	sand, clay, shale		(blue)		120-135	shale, sand		(blue-gray)		135-150	clay, sand				150-220	clay w/sand stringers				220-276	clay shale w/sand				276-400	sand white w/clay - trace coal streaks				400-500	clay sand white tan w/trace coal streaks				500-650	clay grading to silty sand w/trace coal streaks				650-700	clay silty w/sand + silt stringers				700-800	clay soft w/sand stringers				800-900	clay soft sticky w/sand streaks + trace coal				900-980	clay + sand w/ thin coal seams				980-1050	sand tan coarse w/shale clay				1100-1200	sand w/dark gray clay, mushy				1200-1400	clay, shale, mushy w/sand (tan-white)				1400-1500	shale w/clay + sand stringers				1500-1600	clay w/shale + sand stringers + trace coal				1600-1730	clay soft shale, sand stringers			
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6. HOLE DIAM (in.) From (ft) To (ft) <u>17.50</u> <u>0</u> <u>135</u> <u>12 1/4</u> <u>135</u> <u>2035</u>																																																																																																						
7. PLAIN CASING: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>OD (in)</th> <th>Kind</th> <th>Wall Size (in)</th> <th>From (ft)</th> <th>To (ft)</th> </tr> </thead> <tbody> <tr><td>13 3/8</td><td>steel</td><td>2.330</td><td>0</td><td>135</td></tr> <tr><td>8 5/8</td><td>steel</td><td>2.64</td><td>+2</td><td>1736</td></tr> </tbody> </table>			OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)	13 3/8	steel	2.330	0	135	8 5/8	steel	2.64	+2	1736																																																																																					
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8. FILTER PACK: Material _____ Size _____ Interval _____																																																																																																						
9. PACKER PLACEMENT: Type <u>Cement basket</u> Depth <u>1736</u>																																																																																																						
10. GROUTING RECORD <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Amount</th> <th>Density</th> <th>Interval</th> <th>Placement</th> </tr> </thead> <tbody> <tr><td>cement</td><td>105 sacks</td><td>7 gal</td><td>0-135</td><td>pumped</td></tr> <tr><td>cement</td><td>285 sacks</td><td>7 gal</td><td>820-1776</td><td>pumped</td></tr> </tbody> </table>			Material	Amount	Density	Interval	Placement	cement	105 sacks	7 gal	0-135	pumped	cement	285 sacks	7 gal	820-1776	pumped																																																																																					
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Remarks: <u>w/trace coal stringer</u> <u>centralizers installed every 84'</u> <u>(Continue on Page 2)</u>																																																																																																						
11. DISINFECTION: Type <u>Sodium Hypochlorite</u> Amt. Used <u>(4) 55 gal. drums</u> <u>10%</u>																																																																																																						
12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.																																																																																																						
TESTING METHOD Static Level <u>1280</u> ft. Date/Time measured: <u>12-16-07</u> Production Rate <u>250</u> gpm. Pumping Level <u>1597</u> ft. Date/Time measured: _____ Test Length (hrs) <u>24 hrs</u> Remarks: _____																																																																																																						
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. (The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.)																																																																																																						
Company Name: <u>Kumau Drilling LLC</u> Phone: <u>(719) 683-3720</u> License Number: <u>1148</u>																																																																																																						
Mailing Address: <u>23945 Lucky Lane</u> <u>Calhan CO 80808</u>																																																																																																						
Signature: <u>Tim Kumau</u>	Print Name and Title: <u>Tim Kumau manager</u>	Date: <u>1-15-08</u>																																																																																																				

FORM NO. GWS-31 04/2005	<b>WELL CONSTRUCTION AND TEST REPORT</b> STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>	For Office Use Only  <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>RECEIVED</b>   <b>JAN 16 2008</b>           WATER RESOURCES          STATE ENGINEER          COLORADO       </div>							
1. WELL PERMIT NUMBER: <u>276133</u> (Page #2)									
2. WELL OWNER INFORMATION NAME OF WELL OWNER: <u>Santa Fe Springs LLC</u>									
MAILING ADDRESS: <u>31 E Platte Ave #200</u>									
CITY: <u>Colorado Springs</u> STATE: <u>CO</u> ZIP CODE: <u>80903</u>									
TELEPHONE NUMBER: ( ) - -									
3. WELL LOCATION AS DRILLED: _____ 1/4, _____ 1/4, Sec. _____, Twp. _____ <input type="checkbox"/> N or <input type="checkbox"/> S, Range _____ <input type="checkbox"/> E or <input type="checkbox"/> W DISTANCES FROM SEC. LINES: _____ ft. from <input type="checkbox"/> N or <input type="checkbox"/> S section line and _____ ft. from <input type="checkbox"/> E or <input type="checkbox"/> W section line SUBDIVISION: _____, LOT _____, BLOCK _____, FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 STREET ADDRESS AT WELL LOCATION: _____ Northing: _____									
4. GROUND SURFACE ELEVATION _____ feet DATE COMPLETED _____ TOTAL DEPTH _____		DRILLING METHOD _____ DEPTH COMPLETED _____ feet							
5. GEOLOGIC LOG:		6. HOLE DIAM (in.) From (ft) To (ft)							
Depth	Type	Grain Size	Color	Water Loc.					
1730-1800	Sand	coarse	quartz grains	w/shale					
1800-1860	Sand	coarse	decreasing quartz	grains + shale stringers					
1860-1930	Sand	silty	w/shale	stringers					
1930-1990	Silty sand			strings w/increasing silty shale					
1990-2030	Sand	silty	decreasing grain size	w/shale & clay stringers					
2030-2035	thin silty sand			w/shale & clay stringers					
					7. PLAIN CASING: OD (in) Kind Wall Size (in) From (ft) To (ft)				
					PERFORATED CASING: Screen Slot Size (in): _____				
					8. FILTER PACK: Material _____ Size _____ Interval _____		9. PACKER PLACEMENT: Type _____ Depth _____		
					10. GROUTING RECORD Material Amount Density Interval Placement				
Remarks: <u>For more detail see attached</u>									
11. DISINFECTION: Type _____ Amt. Used _____									
12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.									
TESTING METHOD _____									
Static Level _____ ft.		Date/Time measured: _____		Production Rate _____ gpm.					
Pumping Level _____ ft.		Date/Time measured _____		Test Length (hrs) _____					
Remarks: _____									
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. (The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.)									
Company Name: _____					Phone: ( ) - -		License Number: _____		
Mailing Address: _____									
Signature: _____			Print Name and Title _____				Date _____		



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Formation	Depth	Interval	Permit No. 276133 / Sample Description
		0-80	sand coarse grained
		80-120	sand w/blue shale, clay
		120-135	blue-gray shale w/sand
	135		Surface Casing
		135-150	clay sand
		150-220	clay w/sand stringers
		220-276	clay/shale w/sand
Denver-Top	276	276-400	sand white w/clay; trace coal strgs
		400-500	clay and sand white-tan w/trace coal strgs
		500-650	clay grading to silty sand and tr coal strgs
		650-700	clay sticky w/sand and silt stringers
		700-800	clay soft w/sand stringers
		800-900	clay soft sticky w/sand stringers & trace coal
Denver-Base	886		
		900-980	clay and sand w/ thin coal seams
Arapahoe-Top	966		
		980-1050	sand tan coarse w/shaley clay
		1100-1260	sand w/dark gray clay mushy
		1260-1400	clay shaley mushy w/sand tan-white
Arapahoe-Base	1394		
		1400-1500	shale w/clay & sand stringers
		1500-1600	clay w/shale & sand stringers and trace coal
		1600-1730	clay soft shale & sand stringers w/trace coal stringers increasing
Fox Hills-Top	1730		
		1730-1800	sand coarse quartz grains w/shale stringers
		1800-1860	sand coarse w/decreasing quartz grains & shale stringers
		1860-1930	sand silty w/shale stringers
		1930-1990	silty sand stringers w/increasing silty shale
Fox Hills-Base	1992		
		1990-2020	sand silty decreasing grain size w/shale & clay stringers
		2020-2035	thin silty sand w/shale & clay stringers
Total Depth	2035		

 11-11-08  
 11-11-08  
 11-11-08

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JAN 16 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

Formation	Depth	Interval	Permit No. 276133 / Sample Descriptions
		0-135	SS cong-ark ltyel-wh sbang-sbrd part wintbd SH
	135		Surface Casing
		135-220	SS cong aa w/clyst & SH
Denver-Top	276	220-400	SS gy-wh vf-mg uncon mica w/SH gy-gn sft bky clystn sticky; coal strgs
		400-500	SS wh-tan f-vfg uncon-fri cly mtr mica w/tr coal strgs & SH strgs gy-tan clystn
		500-650	SH gy sft clystn glau siltst w/ SS sily mky-gy m-vog uncon w/min incl; coal strgs
		650-770	SS aa decr w/incl SH clystn gy sft mushy sily wintbd siltst strgs
		770-850	SH aa decr w/SS cl-r-lgy f-vfg uncon sbang clystn strgs
Denver-Base	888		
		850-980	SH aa clystn sft sily w/SS aa thin coal seams
Arapahoe-Top	940		
		980-1100	SS wh-tan f-vfg uncon felds cly sbang w/clystn & SH m-dkgy sft arg; coal seams
		1100-1280	SS vfg-mg uncon sbang felds w/siltst aa & dkgy clystn mushy-sft
		1280-1400	SH gy-bm bky sily w/clystn sticky mgy w/SS tan-wh vf-cg shly vsky wintbd siltst strgs
Arapahoe-Base	1398		
		1400-1550	SH & clystn within coal seams SS clr-wh cong-fg ang pert min incl carb coal seams
		1550-1730	SS aa decr to m-fg fri-uncon vally carb wintbd coal seams & dkgy carb sh
Fox Hills-Top	1730		
		1730-1850	SS wh-pale yel cong-cg uncon-fri sbang pert felds w/min incl SH dkgy-bm sft pty
Fox Hills-Base	1992		
		1850-2035	SS aa m-cg incr sily pyr w/incl in SH sft mushy carb & elst strgs mgy fri carb pyr
Total Depth	2035		

FORM NO. GWS-32 02/2005	<b>PUMP INSTALLATION AND TEST REPORT</b> <b>STATE OF COLORADO, OFFICE OF THE STATE ENGINEER</b> 1313 Sherman St, Room 818, Denver, CO 80203 Info (303) 866-3587      Main (303) 866-3581 Fax (303) 866-3589      http://www.water.state.co.us	For Office Use Only  <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <b>RECEIVED</b>   <b>JAN 16 2008</b>           WATER RESOURCES STATE ENGINEER COLO.       </div>
1. WELL PERMIT NUMBER: <u>276d33</u>		
2. WELL OWNER INFORMATION NAME OF OWNER <u>Santa Fe Springs LLC</u> MAILING ADDRESS <u>31 E Platte Ave #200</u> CITY <u>Colorado Springs</u> STATE <u>CO</u> ZIP CODE <u>80903</u> TELEPHONE # <u>(719) 442-2376</u>		
3. WELL LOCATION AS DRILLED: <u>NW 1/4, NW 1/4</u> Sec. <u>10</u> Twp. <u>13</u> <input type="checkbox"/> N or <input checked="" type="checkbox"/> S, Range <u>64</u> <input type="checkbox"/> E or <input checked="" type="checkbox"/> W DISTANCES FROM SEC. LINES: <u>1000</u> ft. from <input checked="" type="checkbox"/> N or <input type="checkbox"/> S section line and <u>250</u> ft. from <input type="checkbox"/> E or <input checked="" type="checkbox"/> W section line. SUBDIVISION: _____ LOT _____ BLOCK _____ FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units _____ Easting: _____ must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Northing: _____ STREET ADDRESS AT WELL LOCATION: _____		
4. PUMP DATA: Type: <u>Submersible</u> Date Installed: <u>1-3-08</u> Pump Manufacturer: <u>ESP</u> Pump Model No. <u>Type TE5500 Series TR5</u> Design GPM: <u>100-250</u> RPM <u>Variable</u> HP <u>150</u> Volts <u>480</u> Full Load Amps <u>377</u> Pump Intake Depth: <u>1855</u> Feet, Drop/Column Pipe Size <u>2 7/8</u> inches, Kind of Drop Pipe <u>FUE Tubing</u> ADDITIONAL INFORMATION FOR PUMPS GREATER THAN 50 GPM: Turbine Driver Type: <input type="checkbox"/> Electric <input type="checkbox"/> Engine <input type="checkbox"/> Other _____ <div style="display: flex; justify-content: space-between;"> <span>Design Head _____ feet</span> <span>Number of Stages <u>41</u></span> <span>Shaft size _____ inches</span> </div>		
5. OTHER EQUIPMENT: Airline Installed <input type="checkbox"/> Yes <input type="checkbox"/> No, Orifice Depth ft. _____ Monitor Tube Installed <input type="checkbox"/> Yes <input type="checkbox"/> No, Depth ft. _____ Flow Meter Mfg. _____ Meter Serial No. _____ Meter Readout: <input type="checkbox"/> Gallons, <input type="checkbox"/> Thousand Gallons, <input type="checkbox"/> Acre feet Beginning Reading _____		
6. TEST DATA: <input type="checkbox"/> check box if Test Data is submitted on Supplemental Form. <div style="display: flex; justify-content: space-between;"> <span>Date: <u>1-3-08</u></span> <span>_____</span> </div> Total Well Depth: <u>1976</u> ft. Time: _____ Static Level: <u>1280</u> ft. Rate (gpm): <u>250</u> Date Measured: <u>12-16-07</u> Pumping Level (ft): <u>1597 while pumping 250 gpm</u>		
7. DISINFECTION: Type <u>HTH</u> Amt. Used <u>6.02</u>		
8. Water Quality analysis available: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please submit with this report.		
9. Remarks: _____		
10. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]		
Company Name: <u>Kunau Drilling LLC</u>		Phone: <u>(719) 683-3720</u>
Mailing Address: <u>23945 Lucky Lane, Calhan, CO 80808</u>		License Number: <u>1148</u>
Signature: <u>Tim Kunau</u>	Print Name and Title: <u>Tim Kunau, manager</u>	Date: <u>1-15-08</u>

SB5OUT1

Santa Fe Springs  
3623714A

LOCATION: NW1/4 OF NW1/4 OF SEC. 10, T.13S., R.64W. (1000 NSL, 250 WSL)  
LOCATION IS WITHIN THE UPPER BLACK SQUIRREL DESIGNATED GROUND WATER BASIN

Ground Elevation: 6770

Number of Acres: 1

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	----	----	----	----	----	----	---
LOWER DAWSON	----	----	----	----	----	----	---
DENVER	5872	6687	197.7	898	83	0.34	NNT
UPPER ARAPAHOE	5362	5850	218.0	1408	920	0.37	NT
LOWER ARAPAHOE	----	----	----	----	----	----	---
LARAMIE-FOX HILLS	4747	5033	217.7	2023	1737	0.33	NT

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

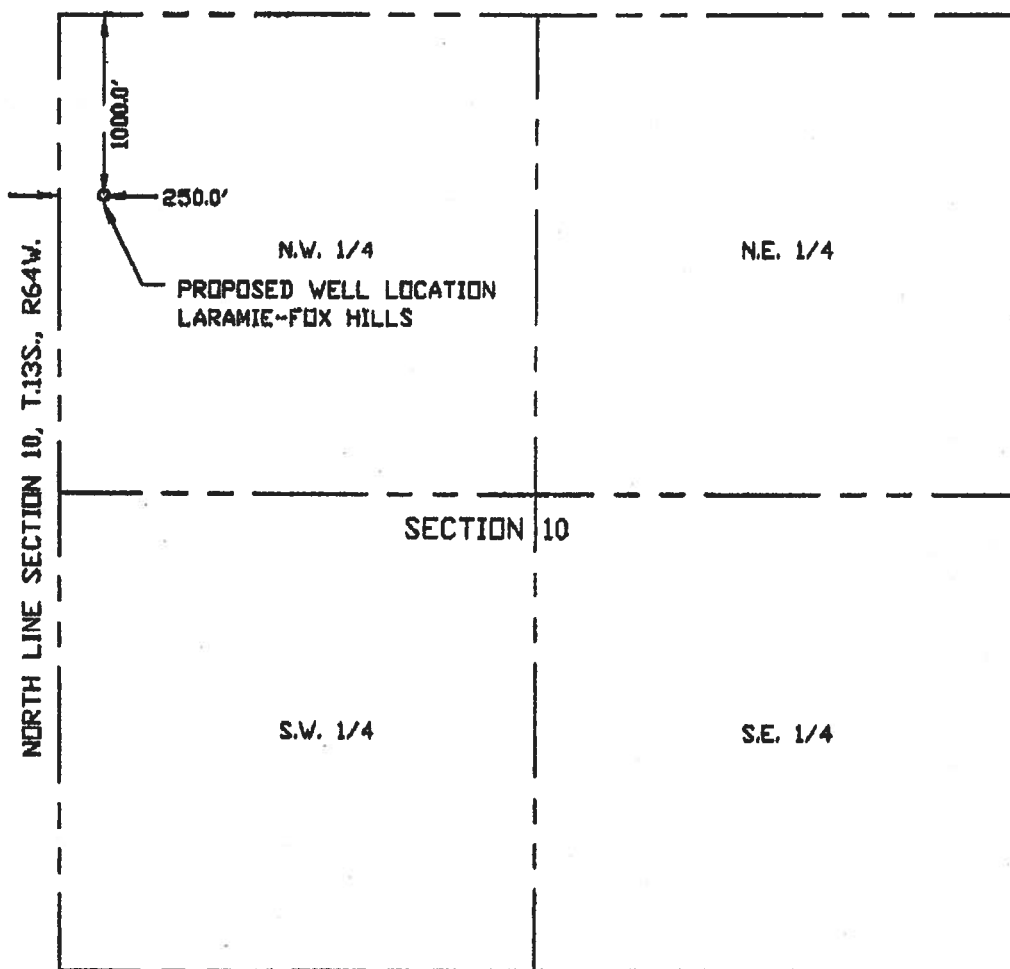


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WATER RESOURCES  
STATE ENGINEER  
COLORADO

NORTH LINE SECTION 10, T.13S., R.64W.



SCALE



1"=1000'

UNITED

PLANNING

ENGINEERING

4575 GALLEY ROAD SUITE 200  
COLORADO SPRINGS COLORADO  
(719) 597-9900 80915

07-1102

11-30-07

JLK

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WATER RESOURCES  
STATE ENGINEER  
COLO.

**PLW Inc**  
**31 E. Platte Ave. Suite 200**  
**Colorado Springs, CO 80903**  
**Ph. (719) 442-2376 / Fax (719) 314-0184**

November 29, 2007

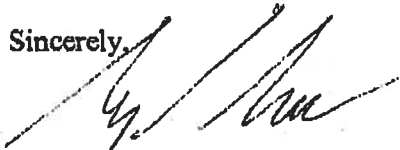
To Whom It May Concern:

This letter serves as formal notification that Dr. Purshottam Dass has full legal authorization to sign and amend water related applications made to the State of Colorado on behalf of PLW Inc. or Ellicott Springs, LLC or Santa Fe Springs, LLC or Triple Bar Ranch, LLC or Rodney J. Preisser.

All of the above entities are owned by Mr. Rodney Preisser and Dr. Dass is hereby authorized to sign and amend applications as an agent for all of the above.

If you have any further questions on this matter, please contact me at my office phone: (719) 442-2376 or on my cell phone at: (719) 339-9111.

Sincerely,



Rodney J. Preisser  
Manager / Owner

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DEC 03 2007

WATER RESOURCES  
STATE ENGINEER  
CALIF.

Purushottam Dass  
31 E. Platte Ave. #200  
Colorado Springs, CO 80903

Phone -- 303-699-6502  
Email -- [purudass@hotmail.com](mailto:purudass@hotmail.com)

November 30, 2007

Sandy Johnson  
Designated Basins Branch  
Colorado Division of Water Resources  
1313 Sherman St. # 818  
Denver, CO 80203

SUB: Two Well Permit Applications

Dear Sandy:


As discussed with you, I am forwarding two well permit applications for monitoring wells to be located in the Upper Black Squirrel Creek Designated Basin. Please note the following:

- One well will be perforated in the Arapahoe aquifer and the other in the Laramie-Fox Hills aquifer.
- We will later make applications to convert these monitoring well permits to large capacity well permits to be processed in accordance with the Commission approved determinations. The approved determination is 458-BD for the Arapahoe aquifer and 457-BD for the Laramie-Fox Hills aquifer. Both Arapahoe and Laramie-Fox Hills are nontributary at this location.
- Since by rules, geophysical logs will be required for the production wells, you may please consider putting the requirement of geophysical logs on these monitoring well permits. Later on, once these monitoring well permits are issued, I would contact geo-technical branch in your office to waive the requirement of geophysical log for the Arapahoe (shallower) well since the two wells will be within 200 feet of each other. I would request this waiver now when the well will be constructed since getting a geo-log later on will not be feasible.
- A fee of \$200.00 for the monitoring well permits is included.

Please feel free to contact me if you have any questions regarding these applications.

Sincerely,

  
Purushottam Dass, Ph.D, PE •  
Santa Fe Springs, LLC

  
12.3.07

<b>COLORADO DIVISION OF WATER RESOURCES</b> <b>DEPARTMENT OF NATURAL RESOURCES</b> 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 <div style="text-align: right;">Form GWS-46 (06/2004)</div> <div style="text-align: center; border: 1px solid black; padding: 5px;"> <b>RECEIVED</b>   <b>DEC 03 2007</b>   <b>WATER RESOURCES</b>  <b>STATE ENGINEER</b>  <b>COLORADO</b> </div>	
<b>MONITORING/OBSERVATION</b> <b>Water Well Permit Application</b> Review instructions on reverse side prior to completing form. The form must be completed in black or blue ink or typed.		<b>6. Use Of Well</b> Use of this well is limited to monitoring water levels and/or water quality sampling	
<b>1. Well Owner Information</b> Name of well owner <b>Santa Fe Springs, LLC</b> Mailing address <b>31 E. PLATTE AVE. #200</b> City State Zip code <b>Colorado Springs CO 80903</b> Telephone # E-Mail (Optional) <b>( ) 719-442-2376</b>		<b>7. Well Data (proposed)</b> Total depth <b>± 2015</b> feet <b>Laramie Fox Hills</b> <b>5 bottom</b>	
<b>2. Type Of Application (check applicable boxes)</b> <input type="checkbox"/> Use existing well <input type="checkbox"/> Replacement for existing monitoring well: <input checked="" type="checkbox"/> Construct new well      Permit no.: <input type="checkbox"/> Other:		<b>8. Consultant Information (if applicable)</b> Name of contact person <b>Purushottam Dass</b> Company name <b>PLW, Inc.</b> Mailing address <b>31 E. PLATTE AVE #200</b> City State Zip Code <b>Colorado Springs CO 80903</b> Telephone # <b>( ) 303-699-6502</b>	
<b>3. Refer To (if applicable)</b> Monitoring hole acknowledgment Well name or # MH-		<b>9. Proposed Well Driller License #(optional):</b>	
<b>4. Location Of Proposed Well</b> County <b>EL PASO</b> <b>NW</b> 1/4 of the <b>NW</b> 1/4 Section Township N or S Range E or W Principal Meridian <b>10 13 06 64 6th PM</b> Distance of well from section lines (section lines are typically not property lines) <b>1000</b> FL from <input checked="" type="checkbox"/> N <input type="checkbox"/> S <b>250</b> FL from <input type="checkbox"/> E <input checked="" type="checkbox"/> W For replacement wells only - distance and direction from old well to new well feet direction Well location address (include City, State, Zip) <input type="checkbox"/> Check if well address is same as item 1.		<b>10. Signature Of Well Owner, Consultant Or Authorized Agent</b> 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) <b>Purushottam Dass</b> Date <b>11.30.07</b> Print name & title <b>PURUSHOTTAM DASS, agent.</b>	
Optional: GPS well location information in UTM format You must check GPS unit for required settings as follows: Format must be UTM <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Units must be Meters Datum must be NAD83 Unit must be set to true north Was GPS unit checked for above? <input type="checkbox"/> YES Remember to set Datum to NAD83		<b>Office Use Only</b> USGS map name DWR map no. <b>62A</b> Surface elev. <b>6770</b> Receipt area only <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">         Trans Number: 3623714 A          12/3/2007 11:30:34 AM          James Martin (19)          Total Trans Amt: \$200.00          CREDIT CARD          Tender Amount: \$200.00       </div> <div style="text-align: right; margin-top: 20px;">         DIV <u>8</u> WD <u>10</u> BA <u>4</u> MD <u>12</u> </div>	
<b>5. Property Owner Information</b> Name of property owner <b>Cheuk Kwan</b> Mailing address <b>3004 Cottonwood Ct.</b> City State Zip Code <b>Fullerton CA 92835</b> Telephone # <b>( )</b>			

# Colorado Division of Water Resources

2FH  
Production Well

## Colorado's Well Permit Search

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. ([Full Disclaimer](#))

#### Well Constructed

Receipt:	3625367A	Division:	2
Permit #:	66938-F -	Water District:	10
Well Name / #:		County:	EL PASO
Designated Basin:	UPPER BLACK SQUIRREL CREEK	Management District:	UPPER BLACK SQUIRREL
Case Number:	457-BD		
WDID:			

[Help](#) Last Refresh:

#### [-] Imaged Documents - Permit File

Document Name	Date Imaged	Annotated
<a href="#">Original File</a>	03/25/2008	No

#### [-] Applicant/Contact

Applicant/Contact Name	Mailing Address	City/State/Zip
SANTA FE SPRINGS LLC	31 E PLATTE AVE # 200	COLORADO SPRINGS, CO 80903

#### [-] Location Information

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
NW	NW	10	13S	64W	Sixth	1000 N 250 W
Northing (UTM y):		4309866.5		Easting (UTM x):		538841.1
Location Accuracy:		Spotted from section lines				

##### Subdivision Name

Filing Block Lot

Parcel ID:

Acres in Tract:

#### [-] Permit Details

Date Issued: 03/18/2008 Date Expires: 03/18/2009

Uses (See [Imaged Documents](#) for more information)

General Use(s): Commercial  
Domestic

Aquifer(s): LARAMIE FOX HILLS

##### Special Use:

Area which may be irrigated: 6955.31 ACRES

Annual volume of appropriation:

##### Statute:

Cross Reference Permit(s): Permit Number 276133-- Receipt 3623714A

##### Comments:

#### [-] Construction/Usage Details

Well Construction Date: 12/16/2007

Pump Installation Date:

Well Plugged:

1st Beneficial Use:

Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate
	2025	1736	1977		

Driller	Lic # Name	Address	Phone Number
	1148 KUNAU, TIMOTHY R.	23945 LUCKY LN CALHAN, CO 80808	7196833720

#### [-] Application/Permit History

Permit Issued	03/18/2008
Application Received	01/28/2008
Pump Installed	01/03/2008
Well Constructed	12/16/2007

#### Disclaimer

\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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Form No. ,  
GWS-25

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

1148

WELL PERMIT NUMBER 66938 - F -  
DIV. 8 WD 10 DES. BASIN 4 MD 12

APPLICANT

SANTA FE SPRINGS LLC  
31 E PLATTE AVE # 200  
COLORADO SPRINGS, CO 80903-

(719) 442-2376

APPROVED WELL LOCATION

EL PASO COUNTY  
NW 1/4 NW 1/4 Section 10  
Township 13 S Range 64 W Sixth P.M.

DISTANCES FROM SECTION LINES

1000 Ft. from North Section Line  
250 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

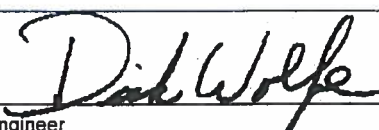
PERMIT TO USE AN EXISTING WELL


CONDITIONS OF APPROVAL

Page 1 of 2

- 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 ensure 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 for use of an existing well (constructed under permit no. 276133) pursuant to CRS 37-90-107(7) and the Findings and Order of the Colorado Ground Water Commission dated March 3, 2004, for Determination of Water Right No. 457-BD.
- 4) The pumping rate of this well shall not exceed 500 GPM.
- 5) The annual withdrawal of ground water from this well shall not exceed 800 acre-feet, subject to the total annual withdrawal limitations and conditions as specified by the above referenced Order of the Commission.
- 6) The use of ground water from this well is limited to domestic use, irrigation, commercial, industrial, recreation and livestock. The place of use shall be limited to the 6955.31 acre land area claimed in the above described Order of the Commission.
- 7) This well must be constructed to withdraw water only from the Laramie-Fox Hills aquifer. The top of the aquifer is located approximately 1735 feet below ground surface and the base of the aquifer is located approximately 2025 feet below ground surface. Plain casing must be installed and grouted to prevent the diversion of water from other aquifers and the movement of water between aquifers. Since the depth to the top of the aquifer is approximate, to ensure the exclusion of poor quality water from zones immediately above the aquifer, plain casing and grout shall extend through the lowermost coal and/or carbonaceous shale that overlies the Laramie sand portion of the aquifer.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well shall be constructed within 200 feet of the location specified on this permit. This well shall not be located within 600 feet of another large-capacity well completed in the Laramie-Fox Hills aquifer.
- 10) A totalizing flow meter or Commission approved measuring device must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (collected at least annually) and submitted to the Upper Black Squirrel Creek Ground Water Management District and the Ground Water Commission upon request.
- 11) No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.

APPROVED  
SMJ

  
State Engineer

  
By

Receipt No. 3625367A

DATE ISSUED 03-18-2008

EXPIRATION DATE 03-18-2009

**CONDITIONS OF APPROVAL**

- 12) Issuance of this permit cancels permit no. 276133.

NOTE: The well was geophysically logged under permit no. 276133.

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.

NOTE: This well is located within a Ground Water Management District where local District Rules may apply to the withdrawal of designated ground water currently authorized under this permit.



WELL CONSTRUCTION AND TEST REPORT					For Office Use Only <b>RECEIVED</b>																																																																																																															
FORM NO. GWS-31 04/2005		STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>			<b>JAN 16 2008</b>  WATER RESOURCES STATE ENGINEER COLORADO																																																																																																															
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4. GROUND SURFACE ELEVATION <u>6772</u> feet DATE COMPLETED <u>12-16-07</u> TOTAL DEPTH <u>2035</u> feet DRILLING METHOD <u>Rotary (mud)</u> DEPTH COMPLETED <u>1976</u> feet																																																																																																																				
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<u>cement</u>	<u>105 sacks</u>	<u>7 gal</u>	<u>0-135</u>	<u>pumped</u>																																																																																																																
<u>cement</u>	<u>285 sacks</u>	<u>7 gal</u>	<u>820-1776</u>	<u>pumped</u>																																																																																																																
11. DISINFECTION: Type <u>Sodium Hypochlorite</u> Amt. Used <u>(4) 55 gal. drums</u> <u>10%</u> 12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.																																																																																																																				
TESTING METHOD Static Level <u>1280</u> ft. Date/Time measured: <u>12-16-07</u> Production Rate <u>250</u> gpm. Pumping Level <u>1597</u> ft. Date/Time measured: _____ Test Length (hrs) <u>24 hrs</u> Remarks: _____																																																																																																																				
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. (The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.)																																																																																																																				
Company Name: <u>Kunau Drilling LLC</u>				Phone: <u>(719) 683-3720</u>		License Number: <u>1148</u>																																																																																																														
Mailing Address: <u>23945 Lucky Lane</u> <u>Calhan CO 80808</u>																																																																																																																				
Signature: <u>Tim Kunau</u>				Print Name and Title: <u>Tim Kunau manager</u>		Date: <u>1-15-08</u>																																																																																																														

FORM NO. GWS-31 04/2005		<b>WELL CONSTRUCTION AND TEST REPORT</b>		For Office Use Only	
		STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone - Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589      http://www.water.state.co.us		<b>RECEIVED</b>  <b>JAN 16 2008</b>  WATER RESOURCES STATE ENGINEER COLORADO	
1. WELL PERMIT NUMBER: <u>276133</u> (Page #2)					
2. WELL OWNER INFORMATION					
NAME OF WELL OWNER: <u>Santa Fe Springs LLC</u>					
MAILING ADDRESS: <u>31 E Platte Ave #200</u>					
CITY: <u>Colorado Springs</u> STATE: <u>CO</u> ZIP CODE: <u>80903</u>					
TELEPHONE NUMBER: ( ) -					
3. WELL LOCATION AS DRILLED:		<input type="checkbox"/> 1/4, <input type="checkbox"/> 1/4, Sec. <input type="checkbox"/> Twp. <input type="checkbox"/> N or <input type="checkbox"/> S, Range <input type="checkbox"/> E or <input type="checkbox"/> W DISTANCES FROM SEC. LINES: _____ ft. from <input type="checkbox"/> N or <input type="checkbox"/> S section line and _____ ft. from <input type="checkbox"/> E or <input type="checkbox"/> W section line SUBDIVISION: _____ LOT _____ BLOCK _____ FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Formal must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 STREET ADDRESS AT WELL LOCATION: _____ Northing: _____			
4. GROUND SURFACE ELEVATION _____ feet		DRILLING METHOD _____			
DATE COMPLETED _____ TOTAL DEPTH _____		feet DEPTH COMPLETED _____ feet			
5. GEOLOGIC LOG:		6. HOLE DIAM (in.) From (ft) To (ft)			
Depth	Type	Grain Size	Color	Water Loc.	
1930-1800	Sand coarse quartz grains w/shale				
1800-1660	Sand coarse & decreasing quartz grains + shale stringers				
1660-1430	Sand silty w/shale stringers				
1430-1990	Silty sand strings w/increasing silty shale				
1990-2030	Sand silty decreasing grain size w/shale & clay stringers				
2030-2035	thin silty sand w/shale & clay stringers				
					7. PLAIN CASING:
					OD (in) Kind Wall Size (in) From (ft) To (ft)
					PERFORATED CASING: Screen Slot Size (in): _____
					8. FILTER PACK:
					Material _____
					Size _____
					Interval _____
					9. PACKER PLACEMENT:
					Type _____
					Depth _____
					10. GROUTING RECORD
					Material Amount Density Interval Placement
Remarks: <u>For more detail see attached</u>					
11. DISINFECTION: Type _____ Amt. Used _____					
12. WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.					
TESTING METHOD _____					
Static Level _____ ft.		Date/Time measured: _____		Production Rate _____ gpm.	
Pumping Level _____ ft.		Date/Time measured _____		Test Length (hrs) _____	
Remarks: _____					
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. (The filing of a document that contains false statements is a violation of section 37-91-106(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.)					
Company Name: _____				Phone: _____ License Number: _____	
Mailing Address: _____					
Signature: _____		Print Name and Title _____			Date _____

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Formation	Depth	Interval	Permit No. 276133 / Sample Description
		0-80	sand coarse grained
		80-120	sand w/blue shale, clay
		120-135	blue-gray shale w/sand
	135		Surface Casing
		135-150	clay sand
		150-220	clay w/sand stringers
		220-276	clay/shale w/sand
Denver-Top	276	276-400	sand white w/clay; trace coal strgs
		400-500	clay and sand white-tan w/trace coal strgs
		500-650	clay grading to silty sand and tr coal strgs
		650-700	clay sticky w/sand and silt stringers
		700-800	clay soft w/sand stringers
		800-900	clay soft sticky w/sand stringers & trace coal
Denver-Base	886		
		900-980	clay and sand w/ thin coal seams
Arapahoe-Top	966		
		980-1050	sand tan coarse w/shaley clay
		1100-1260	sand w/dark gray clay mushy
		1260-1400	clay shaley mushy w/sand tan-white
Arapahoe-Base	1394		
		1400-1500	shale w/clay & sand stringers
		1500-1600	clay w/shale & sand stringers and trace coal
		1600-1730	clay soft shale & sand stringers w/trace coal stringers increasing
Fox Hills-Top	1730		
		1730-1800	sand coarse quartz grains w/shale stringers
		1800-1860	sand coarse w/decreasing quartz grains & shale stringers
		1860-1930	sand silty w/shale stringers
		1930-1990	silty sand stringers w/increasing silty shale
Fox Hills-Base	1992		
		1990-2020	sand silty decreasing grain size w/shale & clay stringers
		2020-2035	thin silty sand w/shale & clay stringers
Total Depth	2035		

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COLO.

Formation	Depth	Interval	Permit No. 276133 / Sample Descriptions
		0-135	SS cong-ark ltyel-wh sbang-sbrd pert wintbd SH
	135		Surface Casing
		135-220	SS cong ss w/clyst & SH
Denver-Top	276	220-400	SS gy-wh vf-mg uncon mica w/SH gy-gn sft biky chystn sticky; coal strgs
		400-500	SS wh-tan f-vfg uncon-frl cly mtrx mica wtr coal strgs & SH strgs gy-tan chystn
		500-650	SH gy sft chystn glau sltst w/ SS silty miky-gy m-vog uncon w/min incl; coal strgs
		650-770	SS as decr w/minor SH chystn gy sft mushy silty wintbd sltst strgs
		770-850	SH as decr w/SS cln-ltgy f-vfg uncon sbang Chystn strgs
Denver-Base	888		
		850-980	SH as chystn sft silty w/SS as thin coal seams
Arapahoe-Top	940		
		980-1100	SS wh-tan f-vfg uncon felds cly sbang w/chystn & SH m-dkgy sft arg. coal seams
		1100-1260	SS vfg-mg uncon sbang felds wh/lat aa & dkgy chystn mushy-sft
		1260-1400	SH gy-brn biky silty w/chystn sticky ngy w/SS tan-wh vf-cg shly velty wintbd sltst strgs
Arapahoe-Base	1398		
		1400-1550	SH & chystn w/min coal seams SS cln-wh cong-fg ang pert min incl carb coal seams
		1550-1730	SS as decr to m-fg fr-uncon velty carb wintbd coal seams & dkgy carb sh
Fox Hills-Top	1730		
		1730-1850	SS wh-pale yel cong-cg uncon-frl sbang pert felds w/min incl SH dkgy-brn sft pily
Fox Hills-Base	1992		
		1850-2035	SS as m-cg incr silty pyr w/minr in SH sft mushy carb & sltst strgs mgy frl carb pyr
Total Depth	2035		

FORM NO. GWS-32 02/2005	<b>PUMP INSTALLATION AND TEST REPORT</b> <b>STATE OF COLORADO, OFFICE OF THE STATE ENGINEER</b> 1313 Sherman St., Room 818, Denver, CO 80203 Info (303) 866-3587      Main (303) 866-3581 Fax (303) 866-3589      http://www.water.state.co.us	For Office Use Only  <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <b>RECEIVED</b>   <b>JAN 16 2008</b>           WATER RESOURCES STATE ENGINEER COLO.       </div>
1. WELL PERMIT NUMBER: <u>276133 66238-F</u>		
2. WELL OWNER INFORMATION NAME OF OWNER <u>Santa Fe Springs LLC</u> MAILING ADDRESS <u>31 E Platte Ave #200</u> CITY <u>Colorado Springs</u> STATE <u>CO</u> ZIP CODE <u>80903</u> TELEPHONE # <u>(719) 442-2376</u>		
3. WELL LOCATION AS DRILLED: <u>NW 1/4, NW 1/4 Sec. 10, Twp. 13</u> <input type="checkbox"/> N or <input checked="" type="checkbox"/> S, Range <u>64</u> <input type="checkbox"/> E or <input checked="" type="checkbox"/> W DISTANCES FROM SEC. LINES: <u>1000</u> ft. from <input checked="" type="checkbox"/> N or <input type="checkbox"/> S section line and <u>250</u> ft. from <input type="checkbox"/> E or <input checked="" type="checkbox"/> W section line. SUBDIVISION: _____ LOT _____ BLOCK _____ FILING (UNIT) _____ Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units _____ Easting: _____ must be meters, Datum must be NAD83, Unit must be set to true N, <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13      Northing: _____		
STREET ADDRESS AT WELL LOCATION: _____		
4. PUMP DATA: Type: <u>Submersible</u> Date Installed: <u>1-3-08</u> Pump Manufacturer: <u>ESP</u> Pump Model No. <u>Type TE5500 Series TR5</u> Design GPM: <u>100-250 RPM Variable</u> HP <u>150</u> Volts <u>480</u> Full Load Amps <u>277</u> Pump Intake Depth: <u>1855</u> Feet, Drop/Column Pipe Size <u>2 7/8</u> inches, Kind of Drop Pipe <u>FUE Tubing</u> ADDITIONAL INFORMATION FOR PUMPS GREATER THAN 50 GPM: Turbine Driver Type: <input type="checkbox"/> Electric <input type="checkbox"/> Engine <input type="checkbox"/> Other _____ <div style="display: flex; justify-content: space-between;"> <span>Design Head _____ feet</span> <span>Number of Stages <u>41</u></span> <span>Shaft size _____ inches</span> </div>		
5. OTHER EQUIPMENT: Airline Installed <input type="checkbox"/> Yes <input type="checkbox"/> No, Orifice Depth ft. _____ Monitor Tube Installed <input type="checkbox"/> Yes <input type="checkbox"/> No, Depth ft. _____ Flow Meter Mfg. _____ Meter Serial No. _____ Meter Readout: <input type="checkbox"/> Gallons, <input type="checkbox"/> Thousand Gallons, <input type="checkbox"/> Acre feet Beginning Reading _____		
6. TEST DATA: <input type="checkbox"/> check box if Test Data is submitted on Supplemental Form. <div style="display: flex; justify-content: space-between;"> <span>Date: <u>1-3-08</u></span> <span>_____</span> </div> Total Well Depth: <u>1976</u> ft. Time: _____ Static Level: <u>1280</u> ft. Rate (gpm): <u>250</u> Date Measured: <u>12-16-07</u> Pumping Level (ft): <u>1597 while pumping 250 gpm</u>		
7. DISINFECTION: Type <u>HTH</u> Amt. Used <u>6 oz</u>		
8. Water Quality analysis available: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please submit with this report.		
9. Remarks: _____		
10. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]		
Company Name: <u>Kunau Drilling LLC</u>		Phone: <u>719-683-3720</u>
Mailing Address: <u>23945 Lucky Lane, Canon, CO 80808</u>		License Number: <u>1148</u>
Signature: <u>Jim Kunau</u>	Print Name and Title: <u>Jim Kunau, manager</u>	Date: <u>1-15-08</u>



2 x 14ab

3/17/08

<b>COLORADO DIVISION OF WATER RESOURCES</b> <b>DEPARTMENT OF NATURAL RESOURCES</b> <b>1313 SHERMAN ST, RM 818, DENVER, CO 80203</b> phone - info: (303) 866-3587 main: (303) 866-3581 fax: (303) 866-3589 <a href="http://www.water.state.co.us">http://www.water.state.co.us</a>		Office Use Only <div style="border: 1px solid black; padding: 5px; text-align: center;">           Form GWS-45 (06/2006)  <b>RECEIVED</b>  <b>JAN 28 2008</b>            WATER RESOURCES            STATE ENGINEER            COLO.         </div>	
<b>GENERAL PURPOSE</b> <b>Water Well Permit Application</b> Review instructions on reverse side prior to completing form. The form must be completed in black or blue ink or typed.		<b>6. Use Of Well (check applicable boxes)</b> Attach a detailed description of uses applied for. <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Other (describe): <input type="checkbox"/> Municipal <b>As per 457-BD</b> <input type="checkbox"/> Irrigation <input type="checkbox"/> Commercial	
<b>1. Applicant Information</b> Name of applicant <b>Santa Fe Springs, LLC</b> Mailing address <b>31 E. PLATTE AVE. # 200</b> City    State    Zip code <b>Colo. Springs CO 80903</b> Telephone #    E-mail (Optional) <b>( ) 719.442.2376 -</b>		<b>7. Well Data (proposed)</b> Maximum pumping rate    Annual amount to be withdrawn <b>500 gpm    800 acre-feet</b> Total depth    Aquifer <b>± 2025 feet    Laramie Fox Hills</b>	
<b>2. Type Of Application (check applicable boxes)</b> <input type="checkbox"/> Construct new well <input checked="" type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or increase use <input type="checkbox"/> Change source (aquifer) <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:		<b>8. Land On Which Ground Water Will Be Used</b> Legal Description (may be provided as an attachment): <b>As per 457-BD</b> (If used for crop irrigation, attach a scaled map that shows irrigated area.) A. # Acres    B. Owner <b>6955.31</b> C. List any other wells or water rights used on this land:	
<b>3. Refer To (if applicable)</b> Well permit #    Water Court case # <b>276133</b> Designated Basin Determination #    Well name or # <b>457-BD</b>		<b>9. Proposed Well Driller License # (optional):</b> <b>10. Signature Of Applicant(s) Or Authorized Agent</b> 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. Signature (Must be original signature)    Date <b>Purushottam Dass</b> <b>1.14.08</b> Print name & title <b>PURUSHOTTAM DASS, AGENT</b>	
<b>4. Location Of Proposed Well</b> County    Section    Township    N or S    Range    E or W    Principal Meridian <b>EL PASO    10    13    <input checked="" type="checkbox"/>    64    <input checked="" type="checkbox"/>    6th</b> Distance of well from section lines (section lines are typically not property lines) <b>1000 Ft. from <input checked="" type="checkbox"/> N <input type="checkbox"/> S    250 Ft. from <input type="checkbox"/> E <input checked="" type="checkbox"/> W</b> For replacement wells only - distance and direction from old well to new well feet    direction Well location address (Include City, State, Zip) <input type="checkbox"/> Check if well address is same as in Item 1. Optional: GPS well location information in UTM format You must check GPS unit for required settings as follows: Format must be UTM <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Units must be Meters Datum must be NAD83 Unit must be set to true north Was GPS unit checked for above? <input type="checkbox"/> YES    Remember to set Datum to NAD83		<b>Office Use Only</b> USGS map name    DWR map no.    Surface elev. <b>6770</b> TO DIST.    Receipt area only <b>2/12/08    600 ft pp OK</b> <b>2347 ac ft</b> <b>Geo log</b> <b>098500</b> <b>meter</b> Trans Number: 3625367 A 1/28/2008 2:25:49 PM Geoff Davis (21) Total Trans Amt: \$200.00 CHECK Check Number: 2304 Check Amount: \$200.00 Domestic irrigation, commercial, industrial, Recreation and livestock DIV <u>8</u> WD <u>10</u> BA <u>4</u> MD <u>12</u>	
<b>5. Parcel On Which Well Will Be Located</b> (PLEASE ATTACH A CURRENT DEED FOR THE SUBJECT PARCEL) A. Legal Description (may be provided as an attachment):		B. # of acres in parcel    C. Owner <b>cheuk Kwan</b> D. Will this be the only well on this parcel? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if no - list other wells) E. State Parcel ID# (optional):	

**PLW Inc**  
**31 E. Platte Ave. Suite 200**  
**Colorado Springs, CO 80903**  
**Ph. (719) 442-2376 / Fax (719) 314-0184**

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JAN 28 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

November 29, 2007

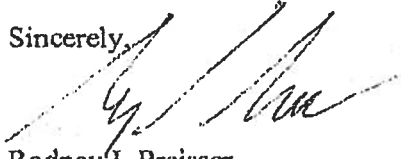
To Whom It May Concern:

This letter serves as formal notification that Dr. Purshottam Dass has full legal authorization to sign and amend water related applications made to the State of Colorado on behalf of PLW Inc. or Ellicott Springs, LLC or Santa Fe Springs, LLC or Triple Bar Ranch, LLC or Rodney J. Preisser.

All of the above entities are owned by Mr. Rodney Preisser and Dr. Dass is hereby authorized to sign and amend applications as an agent for all of the above.

If you have any further questions on this matter, please contact me at my office phone: (719) 442-2376 or on my cell phone at: (719) 339-9111.

Sincerely,



Rodney J. Preisser  
Manager / Owner

SB50UT1

Santa Fe Spgs  
3625367A

LOCATION: NW1/4 OF NW1/4 OF SEC. 10, T.13S., R.64W. (1000 NSL, 250 WSL)  
LOCATION IS WITHIN THE UPPER BLACK SQUIRREL DESIGNATED GROUND WATER BASIN

Ground Elevation: 6770

Number of Acres: 6955

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	----	----	----	----	----	----	---
LOWER DAWSON	----	----	----	----	----	----	---
DENVER	5872	6687	197.7	898	83	2337.94	NNT
UPPER ARAPAHOE	5362	5850	218.0	1408	920	2577.47	NT
LOWER ARAPAHOE	----	----	----	----	----	----	---
LARAMIE-FOX HILLS	4747	5033	217.7	2023	1737	2271.61	NT

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