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DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

Fac #
159318

December 9, 2009

Bill Ritter, Jr.
GovernorJames B. Martin
Executive DirectorDick Wolfe, P.E.
Director/State Engineer**MEMORANDUM**

TO: Denise M Onyskiw
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado

FROM: Michael Schaub 

SUBJECT: Water Injection Project, Parachute Ranch 26-34B, Grand Valley Field, Garfield County.

Your memo of December 1, 2009 describes a proposal to inject water into the Cozette and Corcoran Formations of the Mesa Verde Group in intervals between 5,584 feet to 5,650 feet and 5,856 feet to 5,892 feet below the surface, respectively. The well, Parachute Ranch 26-34B, is located in the SW ¼ of the SE ¼ of Section 26, T7S, R96W. In the proposed injection well, surface casing is installed to a depth of 1,515 feet, and the production casing to a depth of 6,072 feet.

There are three existing water wells of record within ½ mile of the subject quarter/quarter section. Construction and ownership details are given on the attached table. A map is attached showing the location of these water wells. If you require additional information regarding well construction or permit requirements for any or all of these wells please let me know. These wells are all completed to depths ranging from 97 feet to 200 feet below the ground surface and probably produce only from the Wasatch Formation. The Wasatch Formation is generally not considered an aquifer, but locally does provide sufficient water for residential and stock-watering purposes from isolated sandstone horizons and fracture zones.

Broadly, the entire Mesa Verde Group is classified as an aquifer. The Cozzette and Corcoran are located in the lower Mesa Verde, and because of the depths to the proposed injection intervals in the Cozzette and Corcoran, these units are not utilized as a source of fresh water in this area. However, around the margins of the basin on the flanks of the Grand Hogback, the Mesa Verde is present at shallow depths, where it can be a source of groundwater. The nearest exposure of the Mesa Verde is nearly 20 miles to the southwest and 22 miles to the northeast

The project area is located about 1.25 miles northwest of the Colorado River. Additionally, there is an unnamed irrigation ditch located about one-half mile to the west.

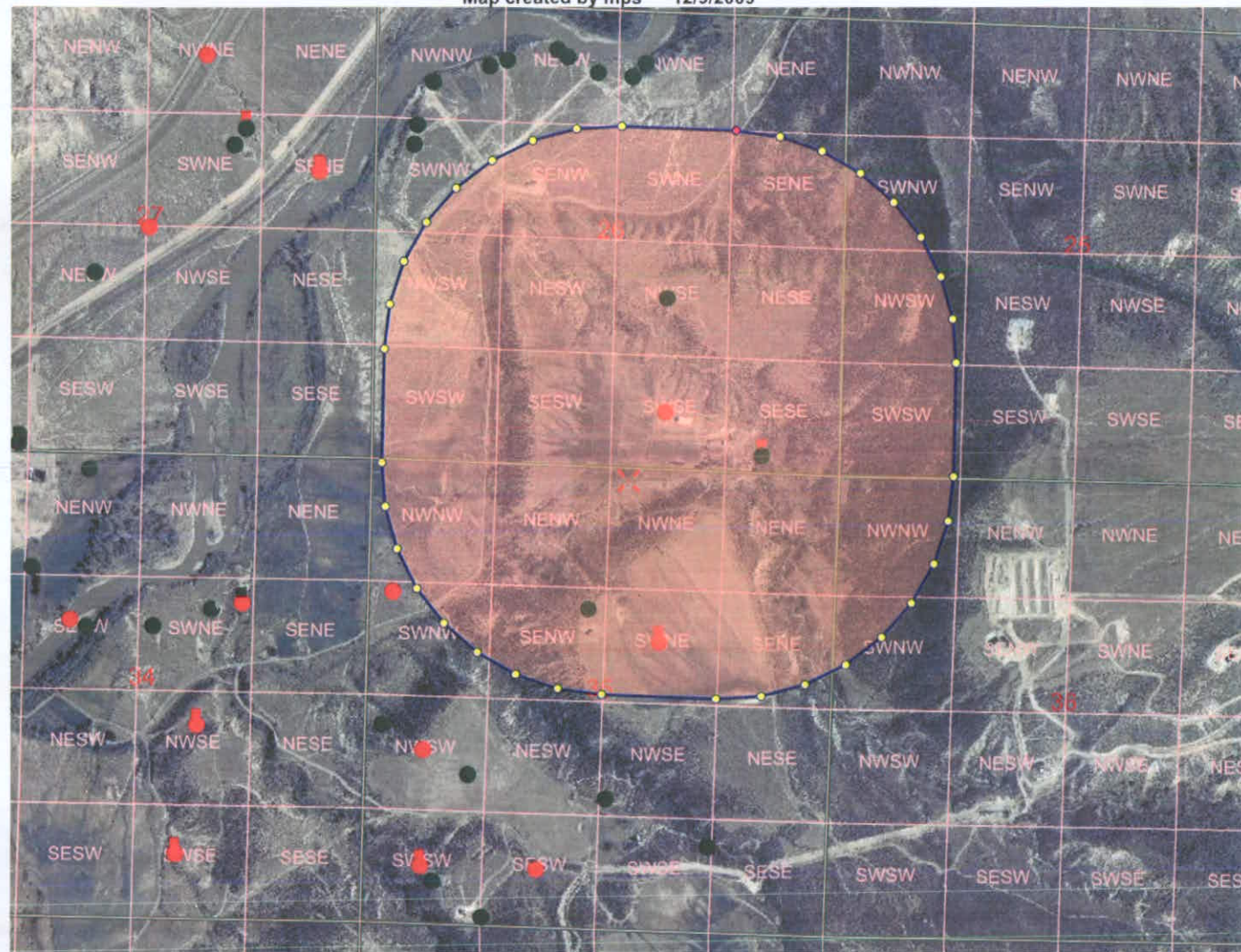
Based on the information you provided, it does not appear that there is any potential for injury to known or potential sources of fresh water in the area from a properly constructed injection well. If you have any questions or require additional information, please feel free to contact me.

Attachments**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

AQUAMAP

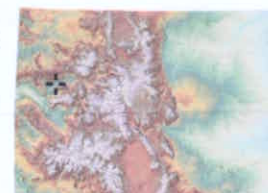
Colorado Division of Water Resources Department of Natural Resources

Map created by mps 12/9/2009



14,235 ft

MAP NAVIGATION



Click to create PDF
 UTM X, Zone 13: 236899
 UTM Y, Zone 13: 4364274
 Long: -108° 3' 17.7"
 Lat: 39° 23' 16.3"
 UTM and Geographic(LL) coordinates in NAD 83

DATA DISPLAY

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Background | <input checked="" type="checkbox"/> Counties | <input checked="" type="checkbox"/> Water Well App |
| 2005 Aerials | <input checked="" type="checkbox"/> PLSS | <input type="checkbox"/> DWR Parcels |
| <input checked="" type="radio"/> Low <input type="radio"/> High | <input type="checkbox"/> Roads | <input checked="" type="checkbox"/> EPA Well Notifi |
| Transparency | <input type="checkbox"/> Hydrography | <input type="checkbox"/> Oil/Gas Well Lo |
| | <input type="checkbox"/> County Parcels (No Public Access) | |

More Data

LOCATION

| | | | |
|--------------|----------|------------|----------|
| Section | Township | Range | Meridian |
| 35 | 7 | 96 | Sixth |
| PLSS Locator | | Quick Zoom | Spacing |

PRINTING

| | | |
|--------------|-----------|------|
| Output Scale | Page Size | User |
| 24,000 | 8.5x11 | mps |
| Title | | |



Based on work developed at <http://www.carto.net>

Address location by Yahoo Maps
 AquaMap Version 3.0.1 July 5, 2009

Parachute Ranch 26-34B

| PERMIT | OWNER | ADDRESS1 | CITY | STATE | ZIP | TS | TDIR | RNG | RDIR | SEC | COORDS NS | COORDS NS DIR | COORDS EW | COORDS EW DIR | AQUIFER | YIELD | DEPTH | LEVEL |
|--------|---------------------|----------------------|------------|-------|--------|----|------|-----|------|-----|--------------|------------------|--------------|------------------|---------|-------|-------|-------|
| 258990 | KLEBOLD LARRY | 301 HIMALAYA AVE | BROOMFIELD | CO | 80026- | 7 | S | 96 | W | 35 | 1657 | N | 2541 | W | Wasatch | 1.5 | 200 | 155 |
| 234736 | GARDNER ROBERT E | 10007 ROUTE 206 | SHAMONG | NJ | 08088- | 7 | S | 96 | W | 26 | | | | | Wasatch | 4 | 97 | 23 |
| 256120 | THROM DONALD R | 1689 COUNTY ROAD 300 | PARACHUTE | CO | 81635- | 7 | S | 96 | W | 26 | 200 | S | 900 | E | Wasatch | 7 | 160 | 18 |