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DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

Fac #  
159318

December 9, 2009

Bill Ritter, Jr.  
Governor

James B. Martin  
Executive Director

Dick 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 *MS*

**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.

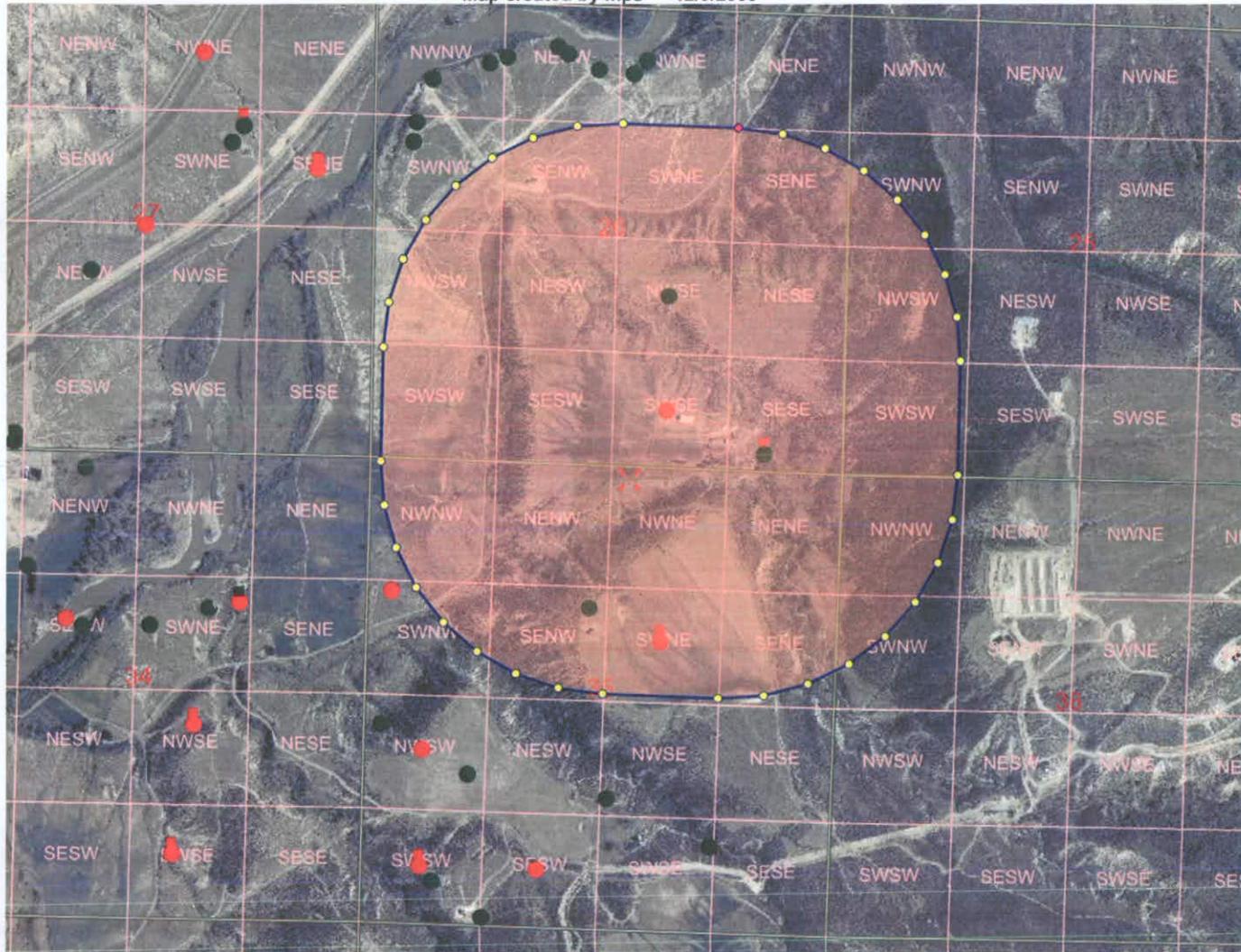
Based on the information you provided, it does not appear that there is any potential for injury to known or potential sources of fresh water in the area from a properly constructed injection well. If you have any questions or require additional information, please feel free to contact me.

Attachments

# AQUAMAP

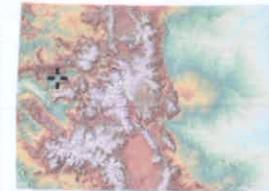
## Colorado Division of Water Resources Department of Natural Resources

Map created by mps 12/9/2009



14,235 ft

### MAP NAVIGATION



Home  Back  Forward  Full Screen  Print  Refresh  Close  Help

Click to create PDF  
 UTM X, Zone 13: 236895  
 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

Background  Counties  Water Well App  
 PLSS  DWR Parcels  
 Roads  EPA Well Notifi  
 Hydrography  Oil/Gas Well Lo  
 County Parcels (No Public Access)

2005 Aerials   
 ● Low ○ High  
 Transparency

### LOCATION

Section: 35  Township: 7  S  Range: 96  W  Meridian: Sixth

### PRINTING

Output Scale: 24,000  Page Size: 8.5x11  User: mps

Title:

11,000 ft



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