



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

April 30, 2009

Bill Ritter, Jr.
Governor

Harris D. Sherman
Executive Director

Dick Wolfe, P.E.
Director

MEMORANDUM

TO: Dave Dillon
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado

FROM: Michael Schaub 

SUBJECT: Water Injection Project, Kokopelli SWD Well, Kokopelli Creek Field, Garfield County.

Your memo of April 29, 2009 describes a proposal to inject water into the Cozette and Corcoran Formations of the Mesa Verde Group in the interval between approximately 7,600 feet and 7,979 feet below the surface. The well, Kokopelli SWD, is located in the NE ¼ of the SE ¼ of Section 8, T6S, R91W. In the proposed injection well, surface casing is installed to a depth of 1,500 feet, and the longstring casing to a depth of 8,229 feet.

There are two existing water wells of record within ½ mile of the subject quarter/quarter section. A map is attached showing the location of these water wells and permit numbers. A table has also been attached with additional information for these 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 located along the Colorado River and are completed to depths ranging from 68 feet to 145 feet below the ground surface. The ground water source at these depths is the Colorado River alluvium, although the wells extend into the underlying Wastach Formation. The Wasatch Formation is generally not considered an aquifer.

Broadly, the entire Mesa Verde Group is classified as an aquifer. However because of the depths to the Cozzette and Corcoran, the proposed injection interval is not utilized as a source of fresh water at this location. However, around the margins of the basin the Mesa Verde is present at shallow depths, where it can be a source of groundwater. The nearest exposure of the Mesa Verde is about 2.7 miles to the northeast of the project area on the flanks of the Grand Hogback, a major structural upwarp.

The project area is located within the drainage basin of the Colorado River, and at a distance of about ½ mile one-half mile south of the river.

The Division of Water Resources has no information regarding water quality in the Cozette and Corcoran Formations at this location. This location is relatively close to the outcrop of these formations and the outcrops are in contact with the Colorado River. There is some slight chance that ground water contained in these formations is being flushed and is of a useable quality in which case the Division of Water Resources would recommend that injection not be approved for this location. Providing the water quality in the injection zone is saline, or high TDS indicating that flushing is not occurring, then the Division of Water Resources would have no concerns. If you have any questions or require additional information, please feel free to contact me.

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

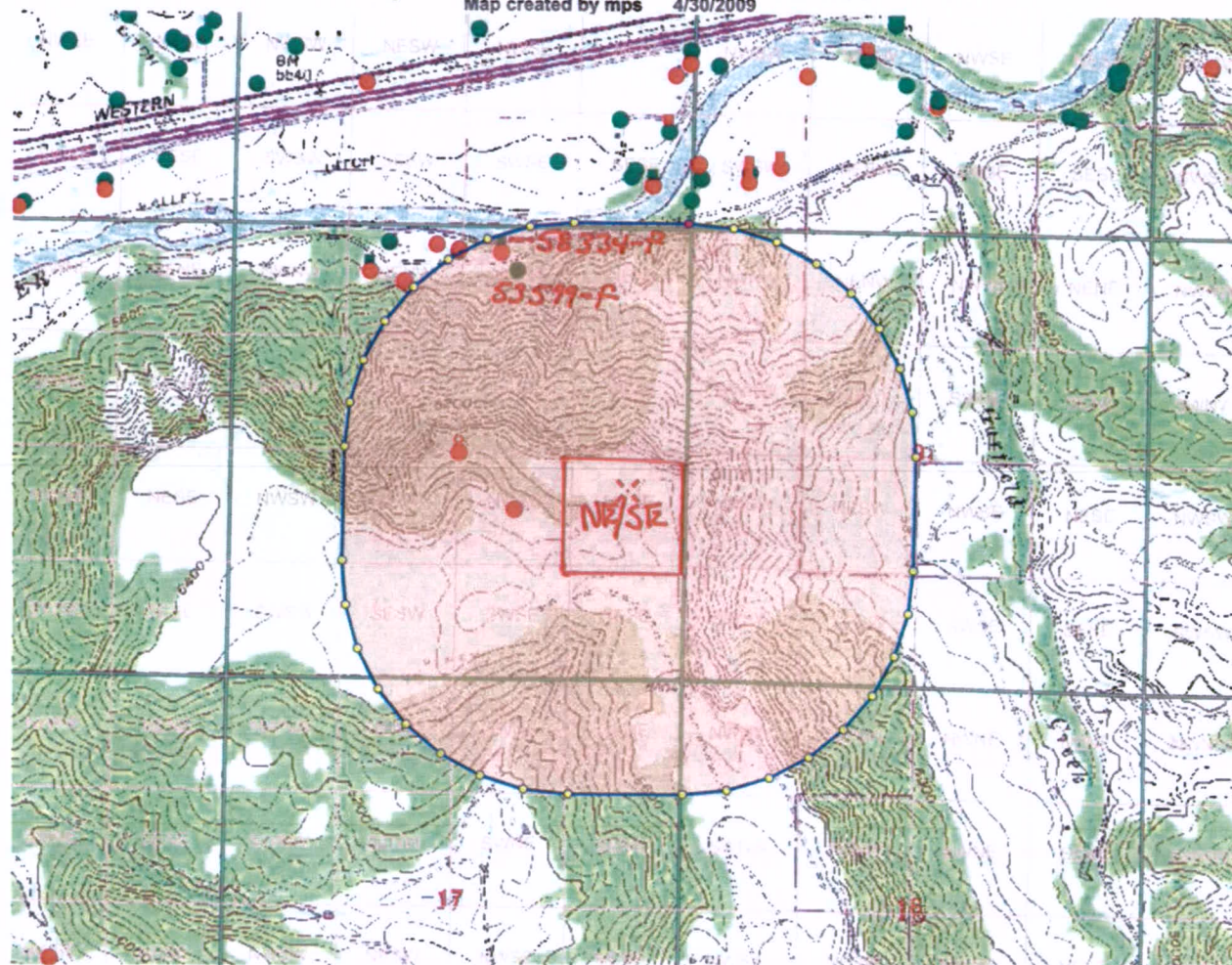
PERMIT	SUF	RECEIPT	OWNER	ADDRESS1	CITY	STATE	ZIP	COORDS NS	COORDS NS DIR	COORDS EW	COORDS EW DIR	YIELD	DEPTH	LEVEL
53599	F	<u>9500033</u>	ROTH JAMIE and CHANDLER	2870 CR 335	NEW CASTLE	CO	81647-	500	N	2000	E	2	145	100
58334	F	<u>495891</u>	SCHULTZ GAIL and GARY	2859 CR 335	NEW CASTLE	CO	81647-	304	N	2185	E	15	68	38

AQUAMAP

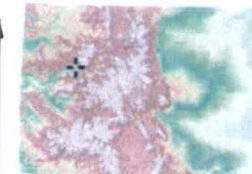
Colorado Division of Water Resources

Department of Natural Resources

Map created by mps 4/30/2009



MAP NAVIGATION



Click to create PDF
 UTM X, Zone 13: 277924
 UTM Y, Zone 13: 4380688
 Long: -107° 35' 4.2"
 Lat: 39° 32' 49.7"
 UTM and Geographic(LL)
 coordinates in NAD 83

DATA DISPLAY

- ☒ Background
- ☒ Counties
- ☒ Well Application
- Quad Maps
- ☒ PLSS
- ☐ DWR Parcels
- ☐ Low ☐ High
- ☐ Highways/Roads
- ☐ Hydrography
- ☐ County Parcels (No Public Access)
-
- Transparency

LOCATION

Section: 8 Township: 6 S Range: 91 W Meridian: Sixth

PRINTING

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



Map Author: Leonard Rice Engineers, 2006
 Based on work developed at <http://www.carto.net>

Address location by Yahoo Maps
 AquaMap Version 2.5 October 3, 2008

