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State of Utah  
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DIVISION OF OIL, GAS AND MINING

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**DIVISION OF OIL GAS & MINING  
FIELD VISIT FORM  
TECHNICAL**

**Date :** August 6, 1997

**Time:** 8:00 am to 6:15 pm

**Mine:** In reference to Star Point - Gentry Mtn. CHIA

**File Number:** ACT/007/006, Folder #2

**DOGM Staff:** David Darby 

**Other Attendees:** Liane Mattson, USFS, Jeff DeFreest USFS, Charles Yankowitz, USFS, Lee Mackelprang, Water User, John Pappas,

**Purpose:** Water Users wanted to point out springs in the area of Tie Fork Canyon /Gentry Ridge which were or have a potential of being impacted by mining of the Star Point Mine.

**Observations:**

The group met at the mouth of Tie Fork Canyon and preceded up the canyon on horseback to Wild Cattle Hollow. A large spring was observed along the way (Lower Tie Fork Spring,), which is one of the springs monitored by the Water Users.

Another spring (Upper Tie Fork Spring, 86-35-23) flows on northern hillside above the junction of Tie Fork and Wild Cattle Hollow. We rode back to the mouth of Wild Cattle Hollow. There were some springs on the east hillside. The site had a unique character showing it to be an old spring site that had flowed in different areas on the hillside. The spring was flowing with a good flow. Algal growth deposits formed where that spring flowed. Remnant deposits revealed where the spring flowed in the past, but no longer, either flowing less or migrating to the new source.

As we rode up Wild Cattle Hollow trail there were areas of seepage on the hillside. About half way observing some seep areas along the way. We switched backed up the slope angling to the point of Gentry Ridge, where we observed a couple spring (85-26-1) sites close together and likely the same source. One, the Water Users had claimed had dried up, was - flowing. Liane and Lee hiked up to the spring source and took a flow measurement. We rode

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up the point of the ridge to another spring (86-26-6), it was flowing also. The water users were concerned that subsidence and dewatering of formations had depleted the flows of the springs, because they are down slope from the mine (Star Point). I think Lee was surprised to see that the spring was flowing. Plateau monitors both of these sites.

As we left these springs it began to rain. We rode around the west side of gentry ridge paralleling the slope to find more spring sources. We came across some springs that were flowing and did not observe sites of depleted springs. We rode to the top of gentry ridge where we planned to drive to some other springs.

It was raining hard by the time we reached the corral to tie up the horses. We met Lee Lemon and some other personnel from the Forest Service who drove us to Pine Spring on Gentry Mountain. We intended to visit other springs, but the storm intensified and the roads became slippery. We drove back to the corral where we rounded up the horses and rode down Gentry Hollow, back to the mouth of Tie Fork Canyon.

### **Recommendations/Conclusions:**

All of the springs observed that day were flowing. There were no spring sites observed that had stopped flowing. Data was only collected at one site. Most of the springs observed are monitored by the operator. Comparative information was not available that day to identify diminution of flows.

Its recommended that the monitoring of the springs continue and that all parties collect and share information to characterize the hydrologic regime and analyze any changes in flow patterns should they occur.

Signature: David W. Donly on August 14, 1997  
< Name > , < Title >