Field Exam Summary A25-13582 November 15, 2003
Bryce Contor
Water Resources Field Services

General Comments - All Maurice Robison Claims

These claims are beneficial use claims for irrigation from a reservoir, streams, and springs. ~~Two~~ 3 of the claims include irrigation storage. My inspection confirmed the reservoir and some of the claimed irrigation and also confirmed stockwater use, ~~which is not claimed~~. A letter to the claimant requests a more detailed explanation of irrigation history and invites an amendment or new claim for stockwater. A copy is in paper file A25-12306.

I drove by late in the day on November 1 after looking at other claims all day. I took two photos and a GPS reading, so that if snow came early I would at least have something. These field notes are in the photos directory as A25-13582_Preliminary_Notes.jpg. Both photos are scanned in one JPEG, saved as A25-13582_Preliminary.jpg. The GPS readings are recorded in the field notes as UTM coordinates to allow direct scaling off a USGS map. They confirm that I was in the right location.

On November 6 I returned and did a more thorough investigation. Field notes are in the photos directory as A25_13582Notes_X.jpg where "X" is the page number. GPS readings are in UTM and correspond to points sketched on a copy of a USGS map in paper file A25-12306. Photo numbers in the notes refer to the red circles on a copy of the claimant's map, also filed in paper file A25-12306. GPS readings for Points of Diversion are reported in the summary write up and the data file in IDTM coordinates. My GPS unit sometimes seems to "lose" data points when I change filenames so the GPS filenames are just the names assigned by the unit.

The evidence of priority is an affidavit from Mr. Robison that describes activities that he may not have personally observed, as well as activities he undertook himself. He references coming home from WWII in 1947. This could imply a birth year of about 1920, suggesting his affidavit references personal knowledge back to 1925. This is earlier than many of the claimed priority dates.

General Comments - A25-13582

There is evidence of stockwater use and irrigation from a ditch. The ditch irrigation is just south of the home on the east side of the creek, parcel "A" on the enclosed sketch. I did not see direct evidence of irrigation parcel "B" but the creek is shallow and the land is flat and it would be easy to put a dam in the creek and irrigate at least some of the west side, lower down.

The claim also references irrigation further west, near letter "D" on the sketch map. It is possible that this could have historically been irrigated from a ditch up in the canyon, but from walking up the east side of the canyon and walking out into the field near letter "D" to take photo 27, I did not see a ditch. The lands near "D" could possibly have been irrigated by sprinkler (see claim A25-13584 write-up).

Ownership

Appears to be correct

POD

The claim states there is a "headgate," but what I found was just a split in the creek. The GPS location is waypoint 119, 685,100E 240,058E IDTM. Stock can drink from the creek or directly from a pond near waypoint 120, which is the inlet for a pipeline that serves a stock tank near the home. Waypoint 120 coordinates are 685,114E 240,160N IDTM.

If sprinkler irrigation is recommended for the west POU, the PODs will be the ponds at "D" on the sketch map, as sketched by claimant.

POU

The gravity-irrigated POU I found is marked on the USGS map. By dot count I estimate about 12.9 acres. If sprinkler irrigation is recommended, the entire claimed POU could potentially be irrigated by sprinklers.

Overlap

East of the ditch the POU overlaps A25-12306. Stockwater POD is shared with domestic POD of A25-12306.

Conflict

None noted.

Priority

Claimed priority is 1920. Affidavit may refer to "personal knowledge" back to 1925.

Quantity

Manning's equation supports ditch capacity for the east side of creek of about 0.75 cfs. Damming creek directly should support adequate flow for the west side of the creek. I propose 0.02 cfs/acre for all recommended acres.

Water Use

Inspection confirms stockwater and irrigation use.

List of Photos

A25-13582_Preliminary.jpg	These two photos were taken from the road late on November 1. They actually relate to A25-12306 more directly than to this claim. These are looking generally north from near the point marked "X" in blue ballpoint on the sketch map.
A25-13582_1.jpg	Ditch that serves east side of creek, looking uphill (north). Photo 16 on map and in notes.
A25-13582_2.jpg	Domestic POU. The back side of the house is a very old appearing cabin.
A25-13582_3.jpg	Irrigation POD. This is tough to see. The ditch is the rocky channel on the camera side of the fence. The natural stream channel goes to the left in the middle ground of the photo. The split (POD) is about where the aspen tree is about halfway back on the right side of the photo.
A25-13582_4.jpg	Stock pond up in canyon near spring box.
A25-13582_5.jpg	Looking west at west part of claimed POU, photo 27 on sketch.
A25-12306_10.jpg	Stockwater POD. This is shared with domestic POD for A25-12306.

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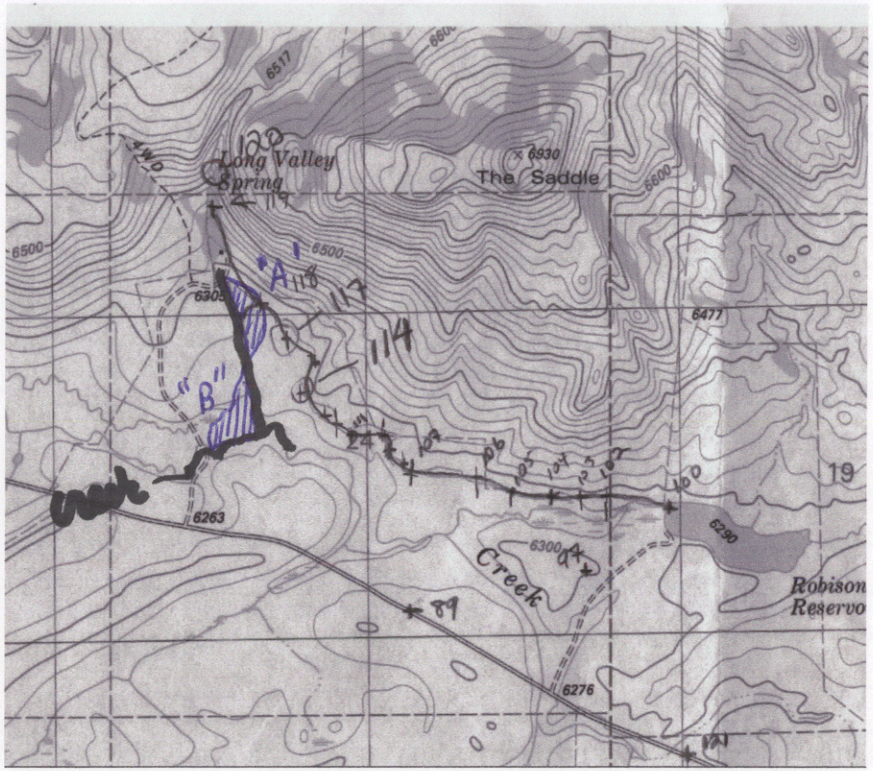
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11/15/03

Date

A25-13582 POU 11/15/03 Bac

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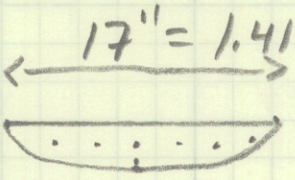


A25-13582 Manning's Calculation 11/8/03

I did not have my lazer level so I measured the ditch dimensions w/ a tape measure & planned to take the slope off the USGS quad. (See marked copy in file A25-12306). Ditch crosses 6300 and 6280 contours in a distance of about 600 ft

$$\frac{20}{600} = 0.0333$$

Cross-section from field notes (A25-13582 Notes-S.jpg) drawn to scale 1" = 1':



Area ≈ 7 dots = 0.28 ft²

WP = 1.75 ft

HR = Area/WP = 0.28 ft²/1.75 ft = 0.16 ft

Manning's n = 0.030 for "earth, some weeds" from Perry Civil Engineering 1959

$$Q = \frac{1.486}{n} A R^{2/3} S^{1/2} = \frac{1.486}{0.03}(0.28)(0.16)^{2/3}(0.0333)^{1/2}$$

$$= 0.75 \text{ ft}^3/\text{s}$$

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A25-#13582 # Preliminary

Maurice Robison initial drive-by 11/1/03

Photo #1 looking N from ~~of~~ waypoint 089 at what appears to be a ditch (may be a road?)



Photo #2 looking NE at same ditch (road?)



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