Snow Pit Profile Observer: Mark Staples Sage Basin Sat Dec 20 12:00:00 MST 2014 Co-ord: 44.94743 N 111.30191 W S Madison, MT Elevation (ft) 8952 Slope: 28 20 Wind loading: no Aspect: Specifics: Snowmobile tracks on slope.

Stability on similar slopes: Fair Air Temperature: C Sky Cover: sky 8/8 covered Precipitation: Snow < 0.5 cm/hr Wind: Calm

Stability Test Notes:

Layer note 59.5-60: P

Crystal Stability Tests ρ Size (mm) Form kg/m³ 84 + 75 70 1 65 CTM Q1 Depth: (cm) 59.5 C1 60 4.0 - 6.0 V ECTN Depth: (cm) 59.5 55 50 0.5 θ 45 40 35 30 25 20 1.0 15 CTH Q1 Depth: (cm) 11 CT S ECTN Depth: (cm) 11 10 2.0 5 0 I K P 1F 4F F V Notes: Also did mulitiple PST and CPST (formerly known as KPST) on the surface hoar layer. I would cut about 15 cm, the crack would propagate about 4F

slab would fracture and arrest the weak layer fracture. Just needs more load and slab to avalanche.

Advisory Region Southern Madison Southern Madison, 2014-12-20