

To

Date

005157

From

L. PIGAGE

JUNE 24/1983

Subject

GRUM DEPOSIT - UTM COORDINATES & ELEVATIONS  
for DDH COLLARS - REVIEW

### Kerr-Addison Survey Control

In 1975 a local controlled survey grid was established for the Grum, Vangorda, and Swim Lake areas by Hosford, Impey, & Wetten. This grid was oriented N-S and E-W.

Kerr-Addison systematically surveyed all surface and underground DDH collars using the control points established with the 1975 HIW survey.

### Cyprus-Anvil Survey Control

In 1979 Northwest Survey Corp. completed a new control survey of the Faro-Vangorda-Swim Lake area. The survey was undertaken to

1. provide ground control for a set of detailed orthophotos
2. provide a common grid and elevation datum for all earlier control surveys.

Earlier survey work was incorporated into the 1979 survey. The entire Vangorda Plateau was tied into a consistent UTM grid system. Earlier Kerr-Addison surveys of DDH collars were also tied into the new survey.

To

Date

JUNE 24/1983

From

L. PIGAGE

Subject GRUM DDH locations — page 2.

As part of this 1979 survey, NWS provided a list of all Kerr-Addison surface DDH collars with both Kerr-Addison grid coordinates and the new UTM coordinates. In most instances this list was utilized for UTM coordinates of Kerr-Addison FAGA-DDH.

NOTE: The 1979 survey established an elevation datum which is 10.61 meters lower than the 1975 HIW datum. Therefore all Kerr-Addison elevations are high by 10.61 meters.

Daryl Hanson (CAMC) reviewed the Kerr-Addison surveys for the underground DDH (FAGU-DDH) in 1980-1981. Because of survey errors some of the Kerr-Addison elevations are too low by about 3 meters. He provided a corrected set of coordinates and elevations for the underground holes in both Kerr-Addison grid coordinates and UTM coordinates. This list of coordinates was utilized for UTM coordinates of Kerr-Addison FAGU-DDH.

Subsequent DDH collar locations (1980, 1981, 1982 DDH) were surveyed by the CAMC Mine Survey crews. These are all referenced to the 1979 UTM grid.

In 1982 J. Marlon-Lambert derived a set of equations for converting the Kerr-Addison grid coordinates to the 1979 UTM grid coordinates and vice versa. These equations are discussed in a separate "memo".