## 36 INCH TELESCOPE FLOOR HYDRAULIC FLUID

PETER P. STOLLENWERK

## 36" TELESCOPE DOME FLOOR HYDROLIC SYSTEM

THERE ARE FOUR 2 STAGE RAMS (10"DIA \$ 8"DIA)

THAT MOVE FLOOR UP AND DOWN. THE RAMS ARE POWERED

BY A CENTRIFUGAL PUMP. THE HYDROLIC FLUID USED

IS WATER WITH A 30:1 RAITO OF CHEVERON SOLUBLE

OIL. THIS FLUID MUST BE TESTED FOR THE CORRECT

WATER OIL RATIO EVERY 3 MONTHS AND REPLACED

WITH FRESH FLUID AT LEAST EVERY 2 YEARS.

THE TESTING IS DONE IN THE FOLLOWING MANER:

USING A GRADUATED GLASS CYLINDER

POUR IN 250 ML OF FLUID AND CARFULLY

ADD 4 TO 5 DROPS OF CONCENTRATED SULFURIC

ACID. STIR FOR 2-3 MIN. OIL WILL SEPERATE

AND FLOAT TO TOP. MEASURE AND ADJUST

ACCORDINGLY.

THE FLUID HAS TO MUCH OIL. THIS OIL ON THE RAMS

WILL OXIDIZE AND CAUSE UNEVEN MOVEMENT.

TO CORRECT THIS PROBLEM ADJUST RATIO OF OIL-WATER

TO PROPER RAITO AND CLEAN RAMS OF OIL USING

SUITABLE SOLVENT.

SOURCE OF OIL INFORMATION:

JOHN SKELLCHOCK (FUELS AND LUBRICANTS ENGINEER)

STANDARD OIL CO. OF CALIT
WESTERN OPERATIONS INC.

EMERYVILLE CALIF

PH.(415) 654-8463