



United States Department of the Interior

NATIONAL PARK SERVICE

LAKE MEAD NATIONAL RECREATION AREA

601 Nevada Highway

BOULDER CITY, NEVADA 89005

IN REPLY REFER TO:

DATE: 10-7-97

TO: RICK INGLIS

TELEFAX MESSAGE

FROM: CURT DEUSER

SUBJECT: Shirwits erosion gully control

COVER PLUS 2 PAGES

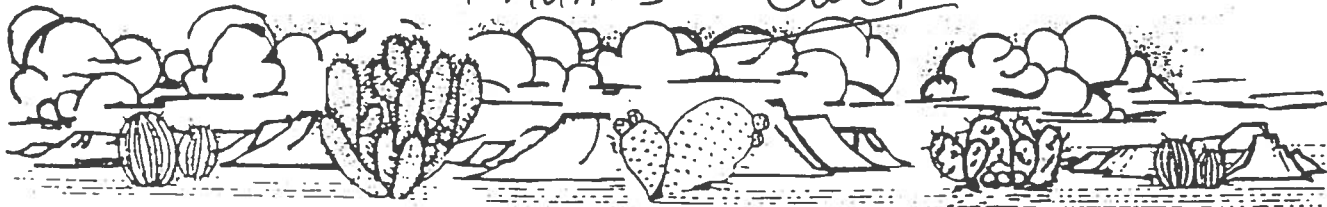


MESSAGE: PLEASE FAX DIAGRAM AND OTHER DETAILS

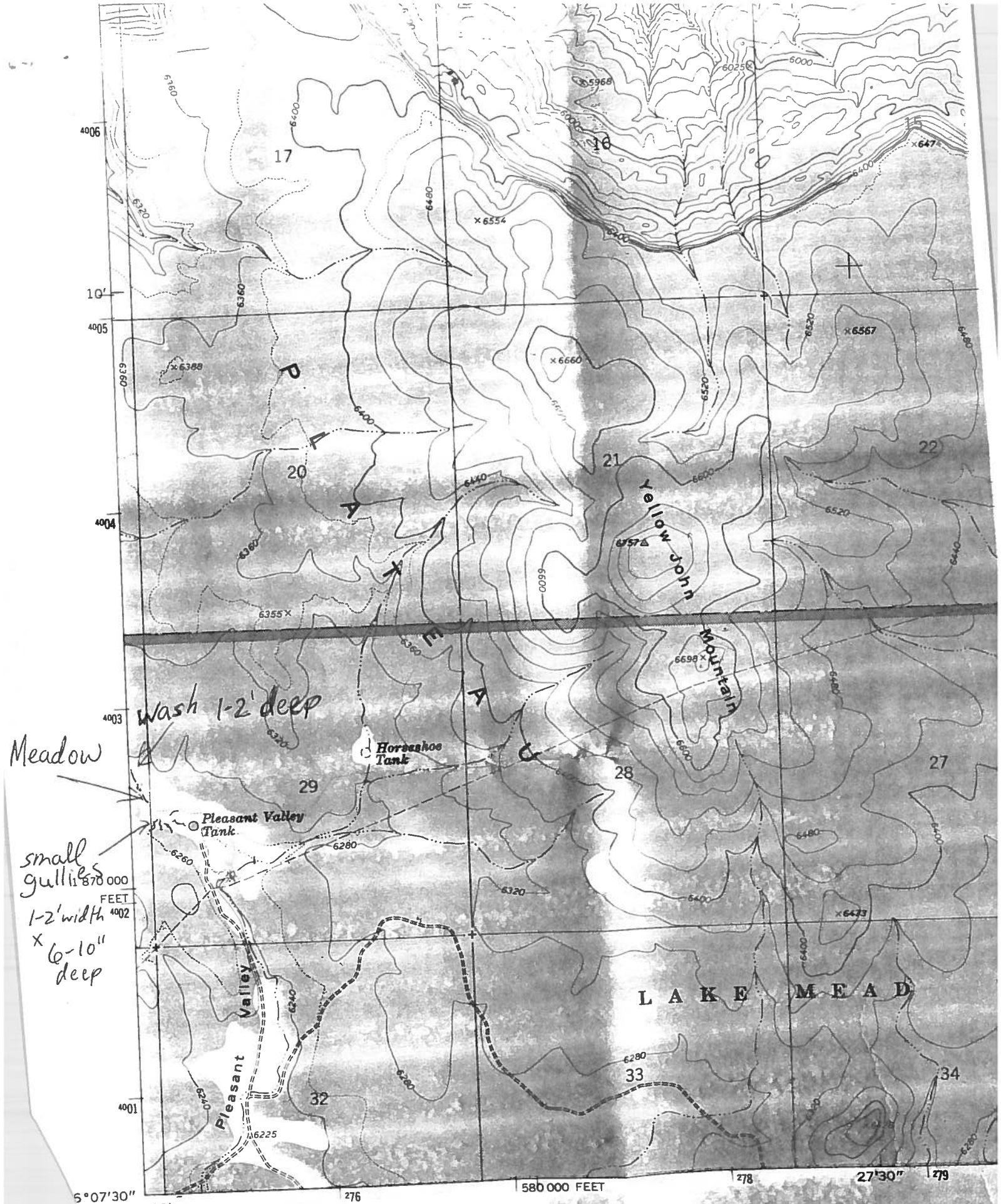
Regarding erosion control methods that you suggest. -ie. wood stakes (^{spatial} pattern + distance)
- sagebrush mats description
- Point bar (loose rock) profile.

FAX (702)293-8057

Thanks - Curt



To verify receipt of message or report problems with transmission, please contact Resource Management at (702)293-8946

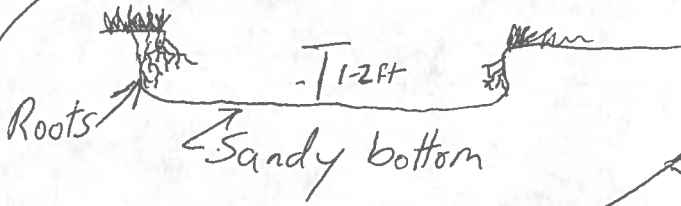


Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial



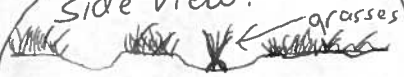
PLEASANT VALLEY MEADOW EROSION DIAGRAM

SIDE VIEW



Pinyon/Juniper
Lava rock

side view:



6-18" width

4-8" depth

MEADOW
Native GRASSES

small
gullies

Juniper

SAGE BRUSH
MIXED

WATER
TANK
(OPEN PIT)

Intermittent
wet meadow

Road



NATIONAL PARK SERVICE
WATER RESOURCES DIVISION
1201 OAK RIDGE DRIVE, SUITE 250
FORT COLLINS, COLORADO 80525-5596

DATE 10/7/97Number of pages including cover 2

TO

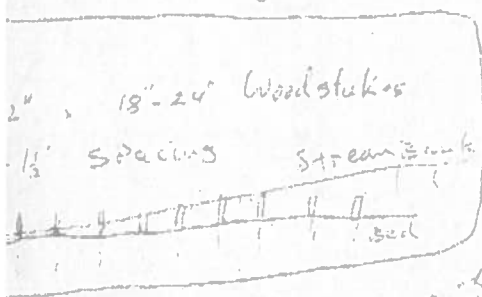
FROM

Curt DeuserRick InglisOFFICE PHONE 702-293-8946OFFICE PHONE 970-225-3517FAX NUMBER 702-293-8057FAX NUMBER (970) 225-9965VERIFICATION # (970) 225-35

NOTES/COMMENTS

Call me to discuss this further. Rick

Suggestions for Slowing Erosion

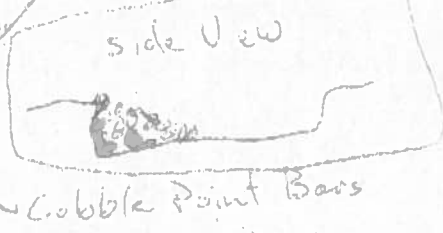


Field of Stakes →

deposition area

Bank Protection

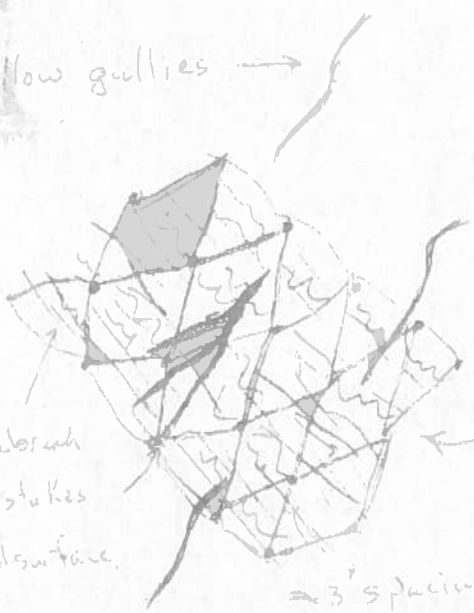
or at least 2x width of channel



2" - 6" size Rocks

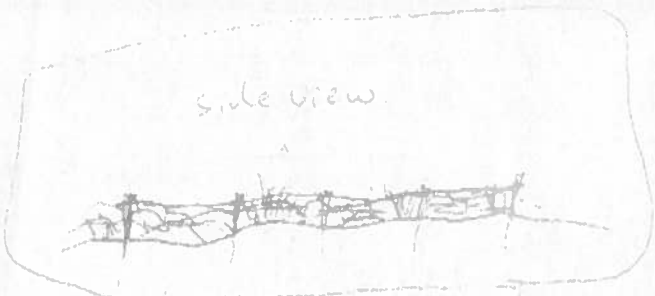
These may help in the short term, long term protection depends on increased vegetative cover.

shallow gullies →



Packed dead sagebrush
Twine tied to stakes
snug to ground surface.

≈ 3' spacing



Sagebrush Mat with Stakes and Twine.

Made of Woody Mulch, 18" wooden stakes, Biodegradable Twine.

Important! Look upstream for sources of Extra Run off
Look Downstream for problems of downcutting.