STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

October 11, 1989

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Meridian Oil, Inc.
P.O. Box 4289
Farmington, NM 87499-4289

Attention: R.E. Fraley

RE: Injection Pressure Increase
Cedar Hill SWD No. 1
San Juan County, New Mexico

Dear Mr. Fraley:

Reference is made to your request dated September 13, 1989, to increase the surface injection pressure on the Cedar Hill SWD Well No. 1. This request is based on a step rate test conducted on the well on August 31, 1989. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well.

WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
Cedar Hill SWD No. 1 Unit B, Section 29, T-32 North, R-10 West, NMPM, San Juan County, New Mexico.	1984 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMay
Director

cc: Oil Conservation Division - Aztec
File: SWD-337
T. Gallegos
D. Catanach

MERIDIAN OIL

September 13, 1989

State of New Mexico
Energy, Minerals, & Natural Resources Department
Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Cedar Hill SWD #1
NW/NE Section 29; T32N-R10W
San Juan County, New Mexico
Request for Increased Surface
Injection Pressure

Gentlemen:

Order SWD-337 dated May 2, 1988, established a limiting surface injection pressure of 1510 psi for the captioned well. Subsequent operation of the well has resulted in an increased surface injection pressure and reduced injection rate.

A step-rate injection test was run August 31, 1989, under the auspices of the New Mexico Oil Commission. The results of this test: a Bottom hole pressure vs. Injection rate plot, surface pressure data and bottom-hole pressure data are appended.

Meridian Oil requests that the surface injection pressure be increased to 2034 psi. The corresponding injection rate is 6 BPM with a measured bottom-hole pressure (BHP) of 5107 psi at 8180'.

An attached radioactivity log of the IR-192 injected during the test demonstrates that the primary zone of entry is the Entrada formation. No fracture height growth is evident in the Morrison formation, the upper perforated zone.

Your timely response to this request will be appreciated.

Respectfully,

R. E. Fraley
Regional Production Engineer

REF:CRB:lar

CEDAR HILL SWD #1

NW/NE, SEC 29, T32N-R10W
STEP RATE TEST @ 15 MINUTE
INTERVALS EACH RATE