TONEY ANAYA

GOVERNOR

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

September 4, 1986



1935 - 198

POST OFFICE BOX 2088
STATE LAND OFFICE BLILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Meridian Oil Inc. P. O. Box 4289 Farmington, New Mexico

Attn: Doug Harris

Re: Injection Pressure Increase

McGrath No. 4 Well

Section 34, T-30N, R-12W, San Juan County, New Mexico

Dear Sir:

Reference is made to your request of August 26, 1986 to increase the surface injection pressure on your McGrath No. 4 SWD Well. This request is based on a step rate test conducted on the well on August 25, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

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

Well & Location
McGrath No. 4
800 FNL & 1730 FEL
Unit B, Sec. 34, T-30N, R-12W
San Juan County, New Mexico

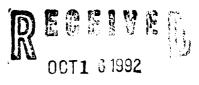
Maximum Injection
Surface Pressure
2370 PSIG

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 it is endangering any fresh water aquifers.

R. L. STAMETS

Director

xc: OCD Aztec
D. Catanach
Donna McDonald



OIL COM. DIV.

MERIDIAN OIL

August 26, 1986

Mr. Frank Chavez Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: McGrath #4

NE/4, Sec. 34, T-30-N, R-12-W San Juan County, New Mexico

Dear Mr. Chavez:

Meridian Oil, Inc., recently ran a step-rate test on the subject well. The data on the next page indicate that an injection pressure of 2,370 psi at a rate of 7 BBL/min. can be achieved without breakover. As a result of this test, Meridian Oil, Inc., requests administrative approval for an increase of injection pressure and rate to a maximum of 2,370 psi at 7 BBL/min. Average injection pressure and rate is expected to be 1,320 psi at 4 BBL/min.

If I can be of further assistance in this matter, or if you have questions regarding this application, I may be contacted at 327-0251 extension 3209.

Sincerely,

Scott H. Lindsay Production Engineer

·te Attachments Mr. Frank Chavez Page 2 August 26, 1986

McGrath #4 (continued)

Wellhead Pressure = 50 psig ISIP= 1150 psig

| Rate (BBL/min) | Pressure (psig) |
|----------------|------------------|
| 0.3 | 50 |
| 1.0 | 250 |
| 1.5 | 390 |
| 2.0 | 570 |
| 3.0 | 915 |
| 4.0 | 1320 |
| 5.1 | 1715 |
| | 2050 |
| 6.1 6.5 | 2190 |
| 7.0 | 2370 |
| / • U | - - · |

ENGINEERING CALCULATION

Sheet: | of |
Date: | B/23/86

By: | S. H. L.

Mc Grath " 4 NE/4, Section 34, T-30-N, R-12-W San Juan County, New Mexico

