



Chevron U.S.A. Inc.
P.O. Box 670, Hobbs, NM 88240

August 27, 1987

Production Department
Hobbs Division

APPLICATION FOR PERMIT TO
RE-ENTER PATTERSON FEDERAL
NO. 1, LEA COUNTY, NEW MEXICO

Bureau of Land Management
P.O. Box 1778
Carlsbad, NM 88220

Gentlemen:

We are submitting a re-entry plan and a surface use plan which should accompany application for permit to re-enter. See the present and proposed well diagram and procedure.

Well: Patterson Federal Well No. 1

- (1) Location: 660' FNL and 660' FEL Section 4-T19S-R32E, Lea County, New Mexico.
- (2) Elevation of Unprepared Ground: 3679.7' GL
- (3) Geologic Name of Surface Formation: Quarternary alluvium.
- (4) Type Drilling Tools: Pulling unit with associated equipment.
- (5) Proposed Re-entry Depth: To cement plug at 4100'. Existing TD 10,900'.
- (6) Estimated Tops of Geologic Markers: Salt 1250', Base of Salt 2700'. 7 Rivers 3450', Queen 3885'.
- (7) Estimated Depths at Which Anticipated Gas or Oil-Bearing Formations Expected: 7 Rivers section 3819' to 3833' may produce oil.
- (8) Casing Program, Setting Depths and TOC:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>	<u>TOC</u>
Surface	11-3/4"	42#	H-40	400'	Surface
Production	8-5/8"	24#	K-55	4178'	Surface

Note: OH cement plug 4100 - 4750'.

- (9) Pressure Control Equipment: The minimum specifications for pressure control equipment can be seen on the attached drawing for 2000 psi WP.