

August 2, 1973



Mr. A. L. Porter, Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2083  
Sante Fe, New Mexico 87501

Re: Application for  
Salt Water Disposal  
No. 3 Federal Media  
Sandoval Co. New Mexico

Dear Mr. Porter:

Petro-Lewis Corporation and Fluid Power Pump Company, operator of the Media field located in Township 19 North, Range 3 West, N.M.P.M. Sandoval County New Mexico, desire to convert their No. 3 Federal Media (a non-commercial Gallup well) to a salt water disposal well. This well will be the second salt water disposal well, the No. 5 Federal Media previously approved as a disposal well on Administrative Order SWD-115 January 12th, 1971. Rule 701 (C).

As required by Rule No. 701, a map is attached showing the location of the present producing wells in the Media Entrada field in Sections 14, 15 and 22 of T19N, R3W. These wells are the Jurassic Entrada Federal Media No. 1 and 2, Fluid Power Pump No.'s 1,3 and 5. The map also shows the location of the present salt water disposal well Federal Media No. 5 and the application salt water disposal well Federal Media No. 3. The water pit, tank and injection pumps are located between the Federal Media No.'s 1 and 2 wells and a line will be constructed from the pumps to the Federal Media No. 3 well.

The attached map shows the ownership of the oil and gas leases around the No. 3 well. The majority of the acreage is held by the applicant Petro-Lewis and Fluid Power Pump Company, and there are no other operators active in the area. Mr. Andres Maestas, 2007 Las Luceros Road NW, Albuquerque, New Mexico, is the surface lessee of the acreage upon which the No. 3 well is located, and he has been furnished with a copy of Application Form No. C-103.

August 2, 1973

We are also enclosing a water analysis report and the analysis shows the produced Entrada water to be almost identical to the analysis submitted for the No. 5 disposal well.

The enclosed induction electric log on the No. 3 well has the formation tops marked and the diagrammatic sketch indicates the casing strings, size and setting depth, cement program and perforated intervals.

Originally, the No. 3 well was drilled to the Entrada sandstone where it was found to be non-productive at a total depth of 5342'. The well was then plugged back per approval USGS by placing a 60 sack cement plug across the Entrada 5342'-5100', a 87 sack plug across the Dakota 4445'-4145'; set 4-1/2" casing at 310' and cemented with 175 sacks of class C and 175 sacks of Diamix "A" cement. Total cement 350 sacks. Cement top 1600'. The well was selectively perforated from 2826' to 3019' and sand-oil fractured with 40,000 # sand and 31,810 gallons of oil. To the best of our knowledge the well produced approximately 907 bbls from June to August 1969 and was shut in as a non-commercial well. The well was pump tested during June and July of 1973 and made 40 bbls of water per day with a scum of oil. It is our desire to use this well as a salt water disposal well since it has been broken down over a large interval by the fracture treatment and the injection of water into this formation would not contaminate any known formation water. The Mancos shale as shown on the induction electric log forms a good thick seal both above and below the Gallup sandstones and this along with the good cement job should protect any other porous formations from contamination in the salt water disposal well.

Presently Petro-Lewis Corporation and Fluid Power Pump Company are on a limited production capacity from the producing Entrada oil wells due to the inability to dispose of the produced water. Plans to install high volume lift equipment which will increase the oil production considerably also intensifies this problem.

Your approval of the project is respectfully solicited. If additional information is needed please call collect (303) 573-7561 or write the undersigned.

Very truly yours,



Dale R. Worth  
Minerals Management, Inc.  
928 Patterson Building  
Denver, Colorado 80202

DRW/mad  
Enclosures ✓  
cc: Mr. Emery Arnold ✓

Consulting Engineer for  
Petro-Lewis Corporation