

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

RE: APPLICATION OF BUFFALO OIL COMPANY )  
FOR PERMISSION TO INJECT WATER INTO THE )  
BAISH POOL IN SECTIONS 21 and 22, TOWN- )  
SHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M., )  
LEA COUNTY, NEW MEXICO, FOR SECONDARY )  
RECOVERY. )

Case No. \_\_\_\_\_

A P P L I C A T I O N

COMES NOW Buffalo Oil Company, and hereby makes application to the New Mexico Oil Conservation Commission for a permit to inject water into the Baish Pool in Lea County, New Mexico for secondary recovery purposes and, in support of such Application, states:

1. That there is attached hereto, marked Exhibit "A" and made a part hereof, a plat showing the location of the proposed intake well, which well is the Buffalo Oil Company Baish A 17Y Well located 2310 feet from the north and 2310 feet from the east line of Section 21, Township 17 South, Range 32 East, N.M.P.M., in Lea County, New Mexico. That said Exhibit "A" shows also the location of the oil and gas wells in the Baish Pool and the names of the lessees within one-half (1/2) mile of the intake well and each offset operator. That Kewanee Oil Company is the only lessee within one-half mile of the intake well.

2. That the formation from which the wells are producing is the Yates Sand in the Baish Pool, which produces from about 2350 feet. That all of the wells producing from the Baish Pool and the entire Baish Pool is located on acreage belonging to Buffalo Oil Company; and Buffalo Oil Company states that

injection of water will not affect any other operator. That all of the other wells in this area are producing from other formations.

3. That the name of the formation is the Yates Sand in the Baish Pool; and this formation produces from a depth of approximately 2350 feet.

4. That there is attached hereto, made a part hereof and marked Exhibit "B", a graph showing a cross section of the Baish Pool and depth of the wells.

5. That the proposed intake well has 7 inch O.D. casing set at 2302 feet, and it is proposed to inject water below this point to a depth of approximately 2390 feet. That the casing in said well and the casing in the other wells in the Baish Pool was tested at the time said wells were drilled and completed.

6. That water is to be used for injection purposes, which water will be secured from Buffalo Oil Company Baish B No. 12 Well, which produces about 850 barrels of water per day from the Devonian Formation. It is anticipated that no treatment of water will be necessary, except that all air will be excluded from the system; and it is contemplated that 40 to 100 barrels of water will be injected daily.

7. At the present time, the Buffalo Oil Company A 17Y Well pumps about 4 barrels of oil per day and, by converting this well to a water injection well, it is hoped to benefit the recovery of oil in the other wells in the Yates Sand in the Baish Pool, and to test and determine the water flood possibilities for the Yates Sand.

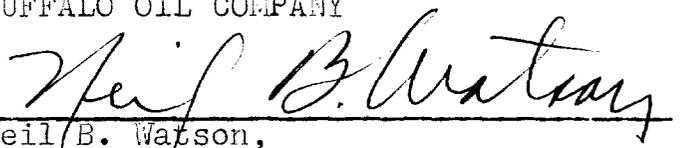
8. That the name and address of the operator of the project is:

Buffalo Oil Company,  
Carper Building,  
Artesia, New Mexico.

WHEREFORE, applicant requests permission from the New Mexico Oil Conservation Commission to proceed with said secondary recovery program, as set forth in the above Application.

BUFFALO OIL COMPANY

by



Neil B. Watson,  
Attorney for Applicant,  
Artesia, New Mexico.