



Application withdrawn
8/25/86

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COLO. OIL & GAS CONS. COMM.

BEFORE THE OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF COLORADO

IN THE MATTER OF THE APPLICATION OF)
PETROLEUM, INC. FOR AN ORDER OF THE)
COMMISSION AUTHORIZING THE UNDERGROUND)
DISPOSAL OF WATER INTO THE "D" SAND-)
STONE FORMATION IN THE SLEEPER FIELD,)
WELD COUNTY, COLORADO.)

Cause No. _____
Order No. _____

A P P L I C A T I O N

Comes now Petroleum, Inc., Applicant in the above-entitled cause and respectfully shows to the Commission.

1. That Petroleum, Inc., is a Corporation organized and existing under and by virtue of the laws of the State of Kansas, and is duly authorized to do and doing business in the State of Colorado, with its office being located at 3818 Coffman - Natrona County Airport, Casper, Wyoming, and with its mailing address being P. O. Box 60, Casper, Wyoming 82602-0060.

2. That it is the operator and the owner of certain working interests in certain wells in the Sleeper Field in Weld County, Colorado, which wells produce from the "D" Sandstone formation which is found at a depth of approximately 6150 feet below the surface of the ground. That attached hereto as Exhibit "A" is a plat showing the location of the proposed disposal well, the Buczkowskyj #3-X located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 22, Township 12 North, Range 56 West, and the location of all oil and gas wells, including abandoned wells and dry holes of public record, and names of the owners of record including surface owners within one-quarter mile of the proposed disposal well, or all owners of record in the field. That shown on the plat are locations and depths of all domestic and irrigation wells of public record, within one-quarter mile of the proposed injection well.

3. That the formation to be injected into is the "D" Sandstone formation, found at an average depth of 6150 feet below the surface of the ground, and is a sandstone, fine grained with fair to good porosity and permeability.

4. That attached hereto as Exhibit "B-1" is an Induction Electric Log, that Exhibit "B-2" is a Compensated Formation Density Log, and that

Exhibit "B-3" is an Acoustic Cement Bond Log run when the proposed disposal well, the Buczkowskyj #3-X was drilled.

5. That attached hereto as Exhibit "C" is a schematic diagram of the proposed disposal well, the Buczkowskyj #3-X, showing the following:

- (a) The total depth of the well;
- (b) The depth of the injection interval;
- (c) The geological name of the injection zone;
- (d) The top and bottom of the casing and cement; and
- (e) The size and specifications of the casing and tubing, and the setting depth and type of packer.

6. That attached hereto as Exhibit "D" is an analysis of the water produced from the "D" Sandstone formation which is the water to be injected into the Buczkowskyj #3-X.

7. That there is no stimulation program planned for the Buczkowskyj #3-X.

8. That the estimated minimum amount of water to be injected daily is 0 barrels with the estimated maximum amount being 750 barrels. That the estimated maximum surface injection pressure will be 1500 psig. That the Buczkowskyj #3-X was fracture stimulated with gelled oil and sand during initial completion in April, 1969, and the instantaneous shut-in pressure was 2200 psig, translating to a .714 psi per foot fracture gradient. To avoid fracturing the reservoir, the injection pressure will not exceed this fracture gradient which, in terms of surface injection pressure using water, is 1730 psig. Inasmuch as the pressure limitation will prevent fracturing of the "D" Sandstone reservoir, it can be safely assumed that the overlying and underlying strata will not be fractured, thus containing the fluid in the "D" Sandstone reservoir.

9. That attached hereto as Exhibit "E" is a list of names and addresses of those persons notified by Petroleum, Inc., by certified mail, including each surface owner or owner of record within one-quarter mile of the proposed disposal well.

WHEREFORE, Applicant requests approval of the underground disposal of water and that this matter be set for hearing in the event any person files a written objection to the same within fifteen (15) days of the

filing of this application with the Commission, that notice of such hearing, or without a hearing if no objection is filed, that an order be entered by the Commission approving the underground disposal of water as aforesaid.

DATED this 23 day of AUGUST, 1985.

Respectfully submitted,
PETROLEUM, INC., Applicant

By: Thomas G. Smith
Thomas G. Smith
Staff Production Engineer

Subscribed in my presence and sworn to before me this 23rd day of August, 1985.

Judy Bannon
Notary Public

My Commission Expires:
October 17, 1987

