



ENSTAR Petroleum, Inc.
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Suite 2040
Denver, Colorado 80202
(303) 296-3434

RECEIVED

JUN 24 1983

COLO. OIL & GAS CONS. COMM

June 8, 1983

Colorado Oil and Gas Conservation Commission
1313 Sherman - Room 620
Denver, Colorado 80203

Attention: Mr. Ed Dimatteo

Dear Ed:

Subject: Conversion to Water Injection Well
Hamil Brothers 18-1
Section 18-T9N-R52W
Logan County, Colorado

Enclosed please find the following:

- ... Plat showing all wells within a one-quarter mile and one mile radius of the proposed water injection well.
- ... A copy of certified mail receipts indicating that all surface owners within one-quarter mile of the proposed injection well have been notified of our intentions.
- ... A copy of the FDC-CNL-GR log, Induction Electric Log and Cement Bond Log.
- ... A schematic of the anticipated surface injection facilities.
- ... An injection well schematic.
- ... A current injection facility detail indicating all tubulars in the hole, perforated interval and artificial stimulation already performed.
- ... A water analysis of the injection water as well as the water in the injection zone.
- ... A copy of the lithologic description of the proposed injection interval. (The well is perforated in the "J" Sand, 4,684' - 4,688' KB).

A plat has been enclosed showing all oil, gas or water wells drilled within a one mile radius of the proposed injection well. Please be advised that no wells of record have been drilled within a one-quarter mile radius of the subject well.

The surface owners within a one-quarter mile radius of the subject well have been included on the plat as well. The surface owners have been notified by certified mail (refer to attachments) and are listed on the adjacent page.

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Colorado Oil and Gas Conservation Commission
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COLO. OIL & GAS CONS. COMM

N/2 of NE/4
Section 18-T9N-R52W

William K. McNear and
James H. McNear
Route 2
Sterling, Colorado 80751

S/2 of NE/4 and S/2
Section 18-T9N-R52W

Hamil Brothers Land Co.
17880 Co. Road 16
Atwood, Colorado 80722

NW/4
Section 18-T9N-R52W

Glen P. and Ann E. Ertle
Route 2
Sterling, Colorado 80751

No underground sources of ground water will be affected by the proposed injection well. The casing to cement bond and cement to formation bond, over the injection interval, is very good. In addition, surface casing has been set to 174' KB and was cemented to surface with 145 sacks of cement.

A schematic showing the existing casing depths and the anticipated tubing setting depth has been enclosed. The tubing will be hung at approximately 4,650' KB. The packer would then be set at approximately 4,590' KB. After the packer has been set the tubing - casing annulus will be tested to 2,000 psi.

Water analyses for both the injection water and water from the injection zone have been attached. No treatment of the injection water is anticipated.

No further stimulation is anticipated as the interval that is currently perforated has already been fraced. The initial breakdown pressure was 2100 psi. It is anticipated that the injection will be 1500-psi. The rate of injection will be approximately 220 barrels of water per day.

If I may be of any further assistance please advise.

Very truly yours,

ENSTAR Corporation



Robert C. Frank,
Regional Operations Technician

RCF/ldh

Enclosure



COLORADO DEPARTMENT OF HEALTH

Richard D. Lamm
Governor

Frank A. Traylor, M.D.
Executive Director

RECEIVED

JUL 18 1983

July 15, 1983

COLO. OIL & GAS CONS. COMM.

Mr. Douglas V. Rogers
Colorado Oil and Gas
Conservation Commission
1313 Sherman Street
Denver, Colorado 80203

Re: Conversion to Water Injection Well Hamil Brothers 18 - 1.

Dear Mr. Rogers:

The above application has been reviewed by the Water Quality Control Division and has been approved for injection. Because the water quality of the receiving formation is below the 10,000 mg/l TDS "marker" an exempted aquifer designation may have to be granted before injection is allowed.

Thank you for the opportunity to review this application.

Sincerely,

WATER QUALITY CONTROL DIVISION

Mark W. Bell
Hydrogeologist

MWB/jl

COLORADO OIL AND GAS CONSERVATION COMMISSION

DISPOSAL APPLICATION REVIEW

- 1 (a) Plat - Disposal Well and all others within 1/4 mile
- (b) List of owners
- (c) Plans and specifications of system
- 2. Geological description of injection zone and underground sources of drinking water
- 3. Electric logs and bond log.
- 4. Well bore diagram and proposed method of testing casing.
- 5. Source and analysis of injection water.
- 6. Proposed stimulation program.
- 7. Minimum and maximum amounts of fluid injected, pressures and known or calculated frac pressures.
- 8. Notice to landowners and offsets.
- 9. Form 4 - Requesting approval to use well as a disposal well as per application.

application seems to be in order.

will need exempt aquifer status

TDS 9090 J sand

✓ sent to Dept of Health } 6/24/83
State Engineer }

6-30-83 - Looks like a "winner". Jim
Needs exempt aquifer status.