

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Braden-Deem, Inc.

Address: Suite 1250 - 125 N. Market, Wichita, Ks 67202

Contact party: Doy C. Deem Phone: (316) 265-1731

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project Marathon Oil Co. Well.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
State #1 SW NE Sec 36-7S-33E

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

* VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Doy C. Deem

Title President

Signature: [Signature]

Date: September 27, 1984

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

INJECTION WELL DATA SHEET

Braden-Deem, Inc. State DB
 OPERATOR LEASE
 6 660' FSL & 660' FWL 25 7-S 33-E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE
 Chaveroo Field, Roosevelt County, New Mexico

Schematic

Tubular Data

Surface Casing

Size 8 5/8" Cemented with 250 sx.
 TOC Surface feet determined by Circulate
 Hole size 12 1/4"

Intermediate Casing

Size _____ Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 4 1/2" Cemented with 800 sx.
 TOC Base of salt feet determined by Volumetric
 Hole size 7 7/8"
 Total depth 4430' PBTD-4397'

Injection interval

4189 feet to 4382 feet
 (perforated or open-hole, indicate which)

8 5/8" CSG @ 418'
 w/ 250 SCS

Plastic lined
 2 3/8" th. g.

Baker Mod. AD
 packer @ 4150'

San Andres Pkgs
 4189-4382

PBTD @ 4397
 4 1/2" - 9.5# CSG @ 4430' (TD)
 Cemented w/ 800 SCS. to base
 of salt.

Tubing size 2 3/8" OD lined with Plastic (PVC Duo Line) set in a
 (material)

Baker Model AD packer at 4150 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Chaveroo San Andres
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? _____

Producing oil well - San Andres Formation

- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no zone other than
San Andres. San Andres perforations 4189'-4382'
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
None known to operators knowledge other than San Andres