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BILL F. HALEPESKA

PETROLEUM ENGINEER

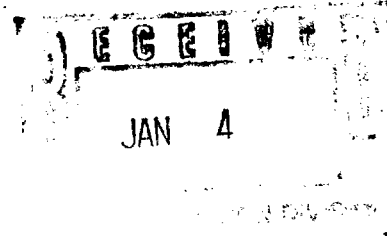
Texas #58052
P. O. Box 80064
915/694-5945

December 15, 2000

New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504
Att: Mr. David R. Catanach

GEOLOGIST

Cert #2941
Midland, Texas 79708



Re: West Dollarhide Devonian Unit Project - NM MI
Lea County, New Mexico
Application for Administrative Approval to Inject
into the WDDU No. 122 Well, Located 2225' FSL &
875' FWL Section 33, T-24-S, R-38-E,

30-025-34903

Gentlemen:

Arch Petroleum respectfully submits two (2) original Applications for Authorization to Inject (Form C-108) pertaining to the captioned well and requests that same be given Administrative Approval.

Persuant thereto, please find enclosed the following:

- (1) Copy of Notification Letter sent to all offset Leasehold Operators within one-half (1/2) mile radius of the proposed injection well and to the surface owner upon which well is located, along with copies of proof of mailing; and
- (2) Proof of Legal Publication.

If you have any questions, please contact the undersigned.

Very truly yours,

Bill F. Halepeska, P.E.
Agent

Enclosure(s)

cc w/encl. : New Mexico Oil Conservation Division; Hobbs, NM

Arch Petroleum
WDDU No. 122

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: ARCH PETROLEUM
Address: P. O. BOX 10340, Midland, Texas 79702
Contact party: Richard L. Wright Phone: 915/685-8100
- 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 R-2248.
- 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.
- * 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: Bill F. Halepeska Title Agent
Signature: *Bill F. Halepeska* Date: 12-08-00
- * 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.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

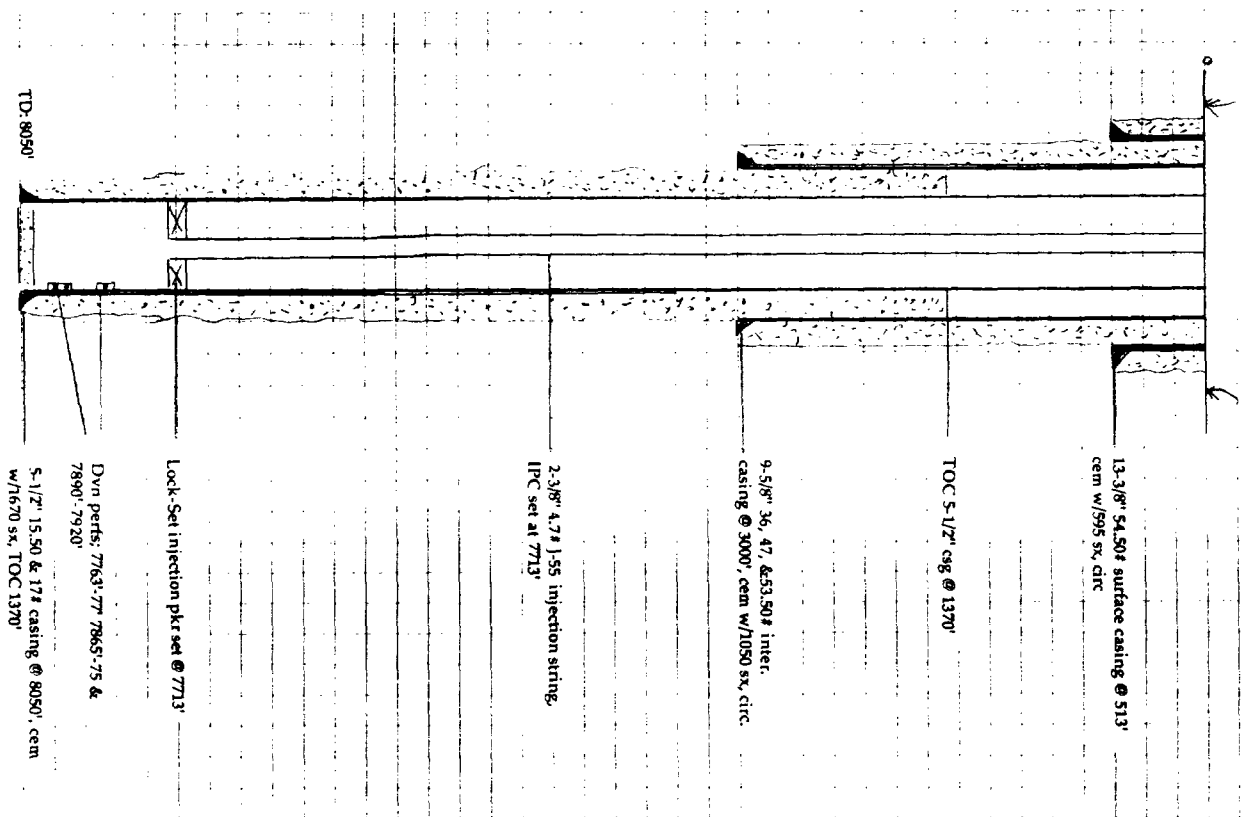
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEETSCHEMATICTABULAR DATA(1). LEASE: West Dollartide Devonian Unit WELL # 122LOCATION: Sec. 33 TWP 24S Range 38ECounty LeaFootage 2225' FSL & 875' FML of Section 33

(2). CASING STRINGS:

Surface Casing

Size 13-3/8" Depth 513' Cemented w/ 595 sx.TOC surface Determined by circ.Hole size 17-1/2"

Intermediate Casing

Size 9-5/8" Depth 3000' Cemented w/ 1050 sx.TOC surface Determined by circulatedHole size 12-1/4"

Long String

Size 5-1/2" Depth 8050' Cemented w/ 1670 sx.TOC 1370' Determined by CBLHole size 8-1/2" (3000'-7350') & 7-7/8" (7350'-TD)Injection interval, from 7763 to 7920 ft.

(3). INJECTION TUBING STRING:

Size 2-3/8 in., coated/lined with polySetting depth 7713 ft.

(4) INJECTION PACKER:

Size 5-1/2 in.; Make/Model Lock-Set or equiv.Setting depth 7713 ft.

FORM C-108

ITEM III-B

INJECTION WELL DATA

- (1). Injection formation: Devonian
Field/Pool: West Dollarhide Devonian
- (2). Injection interval; from 7763 ft. to 7920 ft.
Perforated XX Open Hole
- (3). Original purpose well drilled as Devonian producer
- (4). Other perforated intervals; Yes XX No
Squeezed with sx., or isolated by
- (5). Oil or gas productive zone(s):
Next higher Abo 6637'
Next lower Fusselman 8710'

Lea County, New Mexico

T
24
S

2 mile radius

BLK-52

32°C

Lots 16 & 6
U.S.M.I.
J.T. Crawford

T
25
S

X. A-55

ANDREWS C