

Amoco Production Company

Post Office Box 68 Hobbs, New Mexico 88240

L. R. Smith District Manager

July 17, 1985

File: LRS-1408-WF

Re: Application for Salt Water Disposal North Baum Salt Water Disposal Well No. 1 Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Mr. Gilbert Quintana

Reference is made to our letter of September 10, 1984, File: LRS-1933-WF, requesting approval to convert our Wallaby "WZ" State Com No. 1 (now the North Baum SWDS No. 1) to a salt water disposal well. Administrative approval was granted October 15, 1984, under NMOCD Order No. SWD-280, to dispose of produced water into the Cisco formation.

Amoco Production Company hereby makes application for administrative approval to drill the captioned well out to the Devonian formation in an effort to improve injectivity. Form C-108 and the necessary documentation is attached. Your prompt consideration of this application will be appreciated.

As required, each party listed on the attached service list has been furnished a copy of this application by certified mail complete with all attachments.

If additional information is needed, contact Nevin Gates (505) 393-1781.

L R. Smith 1500

NLG/bf APRD03-VV

Attachments

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cc: State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

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State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87501

Read & Stevens P. O. Box 1518 Roswell, NM 88201

Yates Petroleum Company 207 South Fourth Artesia, NM 88201

M. L. Brown 200 Sutton Place Bldg. Wichita, KS 67202

Tenneco Oil Company 6800 Park Ten Blvd., Suite 200 North San Antonio, TX 78213

SERVICE LIST FOR NORTH BAUM SWDS WELL NO. 1

Leasehold operator within 1/2 mile of proposed injection well

Yates Petroleum Corporation 207 South Fourth Street Artesia, NM 88201

Read & Stevens P. O. Box 1518 Roswell, Nm 88201

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M. L. Brown 200 Sutton Place Bldg. Wichita, KS 67202

Tenneco Oil Company 6800 Park Ten Blvd., Suite 200 North San Antonio, TX 78213

Surface Owner

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87501

NLG/tjt APRDO2-AA(8)

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APPLIC	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no
11.	Operator: <u>Amoco Production Company</u>
	Address: P. O. Box 68, Hobbs, New Mexico 88240
	Contact party:
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? X yes no If yes, give the Division order number authorizing the projectSWD-280
۷.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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
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 avai≀able 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:Nevin L. Gates TitleAdministrative Analyst
	Signature: Mich. Hater Date: 17 July 1985
	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance c carlier submittal
No.	1 (now the North Baum SWDS Well No. 1) was converted to dispessi
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DISTRIBUTION: Original and one copy to Santa fe with one copy to the appropriate Division district office.

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111. 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:
 - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each 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.

JUL 19 1985

ITEM NO. 3 INJECTION WELL DATA

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	WELL DATA SHEET
<u>Amoco Production Company</u> No Operator	Lease
1 660' FSL x 1980' FWL Well No. Footage Location	<u>18 13-S 33-E</u> Section Township Range
<u>Schematic</u>	Surface Casing
(See attached wellbore sketch)	Size <u>13-3/8</u> Cemented with <u>450</u> sx
13-3/8" CSA 388' 8-5/8" CSA 4188'	TOC <u>surface</u> feet determined by <u>circulation</u>
5-1/2" CSA 10,115' 4" LSA 9,900-12,900'	Hole Size <u>17-1/2"</u>
- Lin 3,300-12,300	Intermediate Casing
	Size <u>8-5/8</u> Cemented with <u>2185</u> sx
	TOCsurfacefeet determined byirculation
	Hole Size
	Long String
	Size <u>5-1/2</u> " Cemented with <u>1200</u> sx
	TOC
	Hole Size
	Liner
	Size Cemented with350 sx
	Size 4 "Cemented with 350 sx circ to top tagging TOC of liner feet determined by liner
	Hole Size <u>4-3/4"</u>
	Total Depth <u>top 13,200</u>
	Injection interval 12,900' to 13,200' open hole.
Tubing Size <u>2-7/8</u> " lir	ed withplasticset in a
Baker lock-set (plastic coated) (brand and model)	ed withset in a (Material) packer at9850 feet
(or describe any other casing-tubin	
<u>Other Data</u>	
1. Name of the injection formation	Devonian
2. Name of Field or Pool (if appli	cable)Baum
3. Is this a new well drilled for	
If no, for what purpose was the	well originally drilled? <u>Production of oil</u>
and gas.	
incervais and give plugging det	ed in any other zone(s)? List all such perforated ail (sacks of cement or bridge plug(s) horizons have been tested and the perforations
cement squeezed w/100 sx Class	"H" cmt. In addition, the well has been perforated
5. Give the depth to and name of a	disposal zone. These perforated intervals will be at 9900'. ny overlying and/or underlying oil or gas zones enn. (Bough A, B, and C) overlies Devonian.
No underlying oil or gas zones	

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SHEET NO. OF **Amoco Production Company** FILE ENGINEERING CHART APPN SUBJECT ABETH FUT SUTA WERE No. 1 DATE 7-15-55 Enum TIEZU BY FIL LOCATION: LLOTIL / 1980 FWI SECTION 18, T-13-5, R-33-E ELEVATION 4287,3'6L KENCOUNTY Klow Mouco. Completion Lite 1318" 54,5" 7-55 (36 CSH 388' CANT WJ 450 SX x CIRC 17/2 HOLE 878" 32# T-55.656 27/8" INTERNALLY CONTED TRES LSA 4188' PRICKER GA 4 9850' CATTER 2185 Sx & CIRC 11"HOLE. (GUIRDESON Chan II) TCMT= 7395 VIA TEMP SURVEY 5%" N* N-80 CSG CSA 10115' PETFS: 96416-75' ~ 19 Hours) 9812'-16' wj ISPF Sporete 10014-19' wj 2547 (EMENTED. 10085-90' wj 2547 CHIT WT 1200 SX 77/8" HOLE YEEFS 9970-20, 10002-32 1 10070-110 WT4SPF BEHIND KINER. 4" 11.6 # N-80 FLUSH TONST 5PEN HE:= 12900-13200' LIVER FROM, 9900-12900' Cast wy 350 Sr CLASS HAVENT LAT 43/4"HOLE, TD: 13200' PETC 12:55

ITEM NO. 5

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AREA OF REVIEW AND LEASE OWNERSHIP MAPS

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