

AUG 4 1989

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Amoco Production Company
Address: 2325 E. 30th Farmington, NM 87401
Contact party: Buddy Shaw Phone: (505) 325-8841

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 _____.

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: Buddy Shaw Title: Environmental Coordinator
Signature: [Signature] Date: 7-20-89

* 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.

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) 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.

E. E. Elliott SWD No. 1

III. A. See Injection Well Data Sheet

- B. 1. Names of injection formations are Morrison, Bluff and Entrada.
(No field or pool name for these formations).
2. The 7400' - 8400' injection intervals will be selected from logs run at total depth. Intervals will be perforated with 4 spf.
3. This well will be drilled for the purpose of injection for water disposal.
4. No remedial cement work anticipated.
5. The Dakota formation, top 7009', is the next higher formation known to produce gas in this area; there is no known lower oil or gas producing formation.

VI. There is one well within the area of review that penetrated the proposed injection. Note that only two feet of the drilled TD penetrated the Morrison; however, the cased depth did not penetrate the proposed injection zone. Attached is the data for the subject well.

- VII. 1. Rate of disposal will be determined by a step rate injection test. The primary use of the facility will be for disposal of produced water from area Fruitland coal development wells. The amount of water to be injected will depend on this development.
2. The proposed injection system will be designed as a closed system.
3. Maximum injection pressure will be determined by a step rate injection test. Average injection pressure will be kept below this maximum pressure.
4. Area Fruitland Coal Wells

	Na	Ca	Mg	K	Cl	HC03	S04	C03	TDS
NEBU 400	3545	24	24	-	639	8540	0	0	12800
NEBU 441	4795	128	39	-	1278	11183	0	0	17400
NEBU 406	3829	88	54	-	568	9760	0	0	14300
SJU 30-6 # 400	5463	120	38	-	1630	12224	24	0	13590
SJU 30-6 # 402	5825	78	33	-	668	14701	0	0	13748

E. E. Elliott No. 1

Currently there are no water sample analyses available for specific wells which will be producing water that will be injected into this well; however, the above listed wells and the analyses of produced water are indicative of the water that will be injected into the Florance SWD No. 1.

Compatibility - Attached is a copy of the results of an Amoco scaling tendency program which supports the source water is capabilitable with the injection zone water.

5. Attached are analyses of water samples from the Blackwood Nichols NEBU # 501, NW 1/4, Section 20, T30N, R7W, Rio Arriba County, New Mexico.

VIII. The closest overlying aquifers are the Ojo Alamo, Animas, San Jose, and Nacimiento. The Ojo Alamo should be encountered in this well from 1450' to 1590'. There are no known aquifers below the Entrada.

The proposed injection zones are the sandy and porous portions of the Morrison, Bluff, and Entrada formations. At the proposed Florance SWD No. 1 location the zones could be described as follows:

Morrison - light gray to gray, fine grained to medium grained, well rounded and slightly calcareous sandstones. Individual sandstone bodies are expected to be 10-50' thick separated by shales and siltstones. Some sandstones may be slightly arkosic, but generally are quartzitic with some friable sands. Overall depth is estimated at 7400' - 7800' with overlying unit being Burro Canyon and the underlying unit being the Bluff member. A possible thickness of 200' sand is anticipated.

Bluff - light red to pink to gray, fine grained to medium grained sandstones. Clean, slightly friable, sorted. Individual sandstones are expected to be 10' - 20' thick and separated by shales and siltstones. Overall depth of zone is estimated at 7800' - 8140' with approximately 80' of porous sandstone. Rests on top of Todilto.

Entrada - gray to white, hard, fine to medium grained sandstone. Well sorted and well-rounded. Depth of zone is estimated at 8140' - 8400' with the upper 100' being porous sandstone. Rests on Chinle.

E. E. Elliott SWD No. 1

- IX. Stimulation will consist of perforating selected porous intervals in the Morrison, Bluff, and Entrada and stimulating using a sand water frac treatment. Details will be provided to the District NMOCD office prior to stimulation.
- X. Test information and logs will be provided to the District NMOCD office as available.
- XII. I hereby certify that I have examined available geologic and engineering data and can find no evidence of connection between the disposal zone and underground drinking water sources.

6/20/89

Date

Brooke S. Bell

Brooke S. Bell
Operations Engineer

XIII. Proof of Notice

E. E. Elliott SWD No. 1

Bureau of Land Management
Farmington Resource Area
1235 La Plata Hwy.
Farmington, NM 87401

Conoco, Inc.
P. O. Box 2197
Houston, TX 77252

FMP Operating Co.
P. O. Box 60004
New Orleans, LA 70160

ATTACHMENT FOR ITEM VI

Florance 3-A
1080' FSL X 1695' FEL
Sec. 22, T30N, R9W

Status: PGW
Spud Date: 3/3/63 Comp. Date: 8/19/63
Recompleted: 8/11/75

Drilled TD: 7397' (Morrison Top 7395')
Csg. PBTd: 7387'

Csg./Cementing Record:

<u>Csg.</u>	<u>Depth</u>	<u>Cement</u>	
13 3/8"	366'	350 sx	
9 5/8"	3775'	180 sx	
7"	5385'	75 sx	
4 1/2"	5178 to 7387'	160 sx	(liner)

Perforations: 7059' - 7342' Dakota
4350' - 5031' Mesaverde

Stimulations:
Dakota 5 stage frac SWF
Total 336,400 gallons & 180,000 lbs. sand

Mesaverde 3 stage frac SWF
Total 209,700 gallons & 194,400 lbs. 20/40 sand

Florance

XI. A search of state records in the State Engineer's office and a field search revealed no registered water wells within a mile radius.

75 SUTTLE STREET
PO BOX 2605
DURANGO, CO 81302
(303) 247-4220

ATTEN: L CLARK
PO BOX 1237
DURANGO, CO 81302
(303) 247-0728

DATE SAMPLED: 8/1/88
WELL NAME: NEPU UNIT 501
LOCATION:
FORMATION: MORRISON PERFS.
SAMPLED FROM:
WELL ON/OFF:

CDS ID #: 1120

CONSTITUENT		ppm	epa
Sodium	Na +	10600	461.1
Potassium	K +	1810	46.3
Calcium	Ca ++	685	34.2
Magnesium	Mg ++	65.9	5.4
Iron Total	Fe++ & Fe+++	230	12.4

Item 3A
SWD-339

POSITIVE SUB-TOTAL 13390.9 557.3565

Chloride	Cl -	18200	513.2
Carbonate	CO3 =	0	0.0
Bicarbonate	HCO3-	537	8.8
Hydroxide	OH -	0	0.0
Sulfate	SO4 =	1750	36.4

NEGATIVE SUB-TOTAL 20487 558.47643

Total Dissolved Solids 35100 ppm
pH 6.71 units
Specific Gravity 1.023 @ 73 F.
Resistivity 24 ohm-cm

APPROVED BY: 
DR. JOE BOWDEN, DIRECTOR

This Laboratory report may not be published or used for advertising or in connection with advertising of any kind without prior written permission from CDS Laboratories.
Results are based on analysis made at the time samples are received at the laboratory.

CDS LABORATORIES

GENERAL ANALYSIS

75 SUTTLE STREET
PO BOX 2605
DURANGO, CO 81302
(303) 247-4220

ATTEN: L CLARK
PO BOX 1237
DURANGO, CO 81302
(303) 247-0728

DATE SAMPLED: 8/1/88
WELL NAME: NEBU UNIT 501
LOCATION:
FORMATION: ENTRADA WATER
SAMPLED FROM:
WELL ON/OFF:

CDS ID #: 1119

CONSTITUENT	ppm	ppm
Sodium Na +	4760	207.1
Potassium K +	169	4.3
Calcium Ca ++	1310	65.4
Magnesium Mg ++	29.4	2.4
Iron Total Fe++ & Fe+++	164	8.8

Item 2A
SWD-339

POSITIVE SUB-TOTAL 6432.4 287.9799

Chloride Cl -	8280	233.5
Carbonate CO3 =	0	0.0
Bicarbonate HCO3-	152	2.5
Hydroxide OH -	0	0.0
Sulfate SO4 =	2100	43.7

NEGATIVE SUB-TOTAL 10532 279.70928

Total Dissolved Solids 19000 ppm.
pH 5.07 units
Specific Gravity 1.01 @ 73 F.
Resistivity 45 ohm-cm

APPROVED BY:



DR. JOE BOWDEN, DIRECTOR

This Laboratory report may not be published or used for advertising or in connection with advertising of any kind without prior written permission from CDS Laboratories.

Results are based on analysis made at the time samples are received at the laboratory.

SCALE PREDICTIONS, MIXTURE NO. 1: 90.0 PERCENT FRUITLAND
 5.0 PERCENT ENTRADA
 5.0 PERCENT MORRISON

CALCULATED COMPOSITION OF MIXTURE NO. 1 IN MG/L:

(NA) = 4810.
 (CL) = 2123.
 (CA) = 136.
 (SO4) = 192.
 (MG) = 31.
 (HCO3) = 9697.
 (BA) = 0.
 (CO3) = 0.
 PH = 6.3

MOLAL IONIC STRENGTH = 0.229
 SPECIFIC GRAVITY = 1.012

SCALING TENDENCIES(MG/L):

TEMP(F)	P(PSI)	CO2(PSI)	CASD4	BASD4	SRSO4	CACO3
80.	4000.0	0.000	-4515.	0.	-335.	292.
110.	4000.0	0.000	-3342.	-1.	-354.	301.
140.	4000.0	0.000	-2544.	-1.	-297.	309.
170.	4000.0	0.000	-1964.	-1.	-141.	316.
200.	4000.0	0.000	-1521.	-1.	-82.	321.

SCALE INDEX = ANALYZED CONCENTRATION - EQUILIBRIUM SOLUBILITY

A POSITIVE SCALE INDEX INDICATES SCALE PRECIPITATION CAN OCCUR WITH
 THE MAGNITUDE OF THE SCALE INDEX INDICATING THE MAXIMUM AMOUNT WHICH
 COULD PRECIPITATE. A NEGATIVE SCALE INDEX INDICATES THE WATER IS
 UNSATURATED AND NO SCALE PRECIPITATION WILL OCCUR.

May 30, 1989

SALTWATER DISPOSAL WELL
TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM
 SECTION 27: 1220' FNL & 1520' FEL
 SAN JUAN COUNTY, NEW MEXICO

Section 27: NE $\frac{1}{4}$

- 1) Surface ownership- Bureau of Land Management, Farmington Resource Area, 1235 La Plata Highway, Farmington, New Mexico 87401
- 2) Grazing lease- Blanco Community #5039
 - a) Jose R. Velasquez, 764 Road 4599, Blanco, NM 87412
 - b) Milton J. Archuleta, Star Route A, Box 830, Blanco, NM 87412
 - c) Estevan A. Chavez and Lillian S. Chavez, Star Route A, Box 120, Blanco, NM 87412
 - d) Cristobal S. Gurule, P.O. Box 393, Blanco, NM 87412
 - e) Estate of Fred Jacquez, c/o Jacquez & Sons, Box 362, Blanco, NM 87412
 - f) John N. Jaquez, Rt. A, Box 871, Blanco, NM 87412
 - g) Vidal Filomeno Lujan and Chris Pacheco, P.O. Box 445, Blanco, NM 87412
 - h) Chris Pacheco, P.O. Box 445, Blanco, NM 87412
 - i) Paul Velasquez, P.O. Box 442, Blanco, NM 87412
 - j) Emilio Muniz, P.O. Box 6367, Navajo Dam, NM 87419
 - k) A. K. Brown, P.O. Box 738, Ignacio, CO 81137
 - l) Estate of Silvianito F. Chavez, c/o Lydia Chavez & Sons, P.O. Box 1145, Blanco, NM 87412
 - m) Jose R. Velasquez, c/o Chris Velasquez, Star Route A, Box 600, Blanco, NM 87412
 - n) Jose E. Martinez, 678 County Road 4599, Blanco, NM 87412
- 3) Mineral ownership- USA
- 4) Current leasehold- USA lease #SF-078139; held by production; Lessee: 100%-Elmer E. Elliott, General Delivery, Santa Maria, CA 93456; Operating rights: 100%-Amoco Production Company

INFORMATION ON AREAS IN A 1/2 MILE RADIUS FROM SECTION 27: NE $\frac{1}{4}$ Section 27: W $\frac{1}{2}$, SE $\frac{1}{4}$ and Section 26: W $\frac{1}{2}$

- 1) Surface ownership- Bureau of Land Management, Section 27: W $\frac{1}{2}$, SE $\frac{1}{4}$; and Colorado Storage Project (which the BLM is the administrator), Section 26: W $\frac{1}{2}$
- 2) Grazing lease- Blanco Community #5039
(See above for the fourteen owners)
- 3) Mineral ownership- USA
- 4) Current leasehold- USA #SF-078139 (Same leasehold information as for Section 27: NE $\frac{1}{4}$ above)

Section 22: S $\frac{1}{2}$

- 1) Surface ownership- Bureau of Land Management
- 2) Grazing lease- Blanco Community #5039
(See above for the fourteen owners)
- 3) Mineral ownership- USA
- 4) Current leasehold- USA #SF-080003; held by production; Lessee and operating rights: 50%-Tenneco Oil Co., Box 3119, Englewood, CO 80155, & 43.50%-Conoco, Inc., Box 2197, Houston, TX 77252, and 6.50%-FMP Operating Co., Box 60004, New Orleans, LA 70160

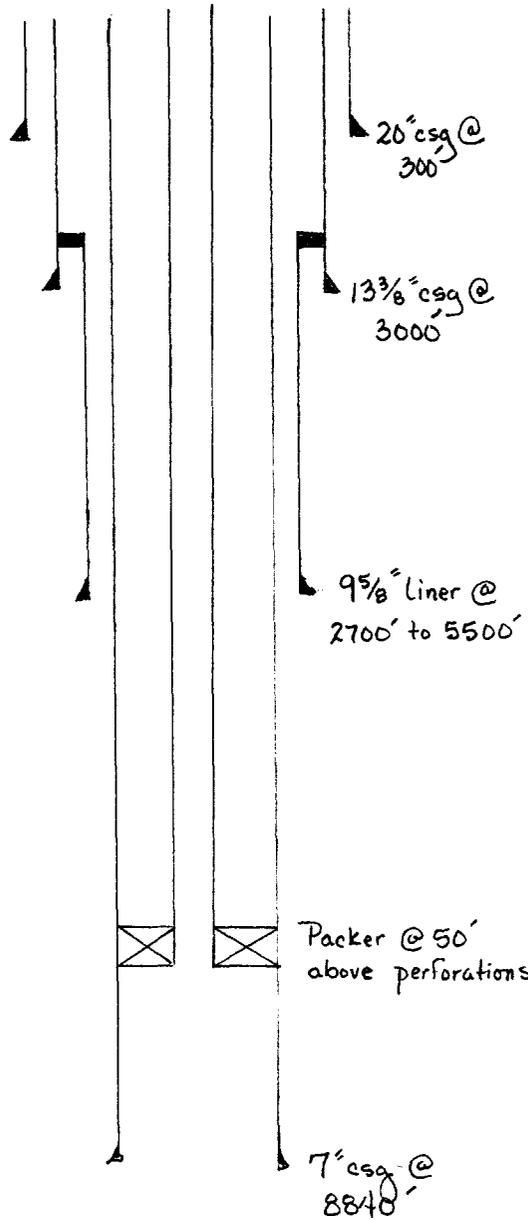
Section 23: SW $\frac{1}{4}$

- 1) Surface ownership- Colorado Storage Project (which the BLM is the administrator)
- 2) Grazing leases- Part of the SW $\frac{1}{4}$ is covered by Blanco Community #5039 (see above for the fourteen owners); and the remaining part of the SW $\frac{1}{4}$ is covered by Pump Canyon #5041, Estate of Fred Jacquez, c/o Genieve Jacquez, Box 362, Blanco, NM 87412
- 3) Mineral ownership- USA
- 4) Current leasehold- USA #SF-080005, held by production; Lessee and operating rights: 50%-Tenneco Oil Co., & 43.50%-Conoco, Inc., and 6.50%-FMP Operating Co.

INJECTION WELL DATA SHEET

Amoco Production Co. E. E. Elliott
 Operator Lease
 1 1220' FNL X 1520' FEL 27 30 North 9 West
 Well No. Footage Location Section Township Range
 San Juan County, New Mexico

Schematic



Tabular Data

Surface Casing

Size 20" Cemented with 640 sx.
 TOC surface feet determined by circulation
 Hole size 26"

Intermediate Casing

Size 13 3/8" Cemented with 1700 sx.
 TOC surface feet determined by circulation
 Hole size 17 1/2"

Long String

Size 7" Cemented with 600 sx.
 TOC 5000 feet determined by bond log
 Hole size 8 3/4"
 Total depth 8840'

Injection interval
 (will perforate selected intervals)

7400 feet to 8400 feet

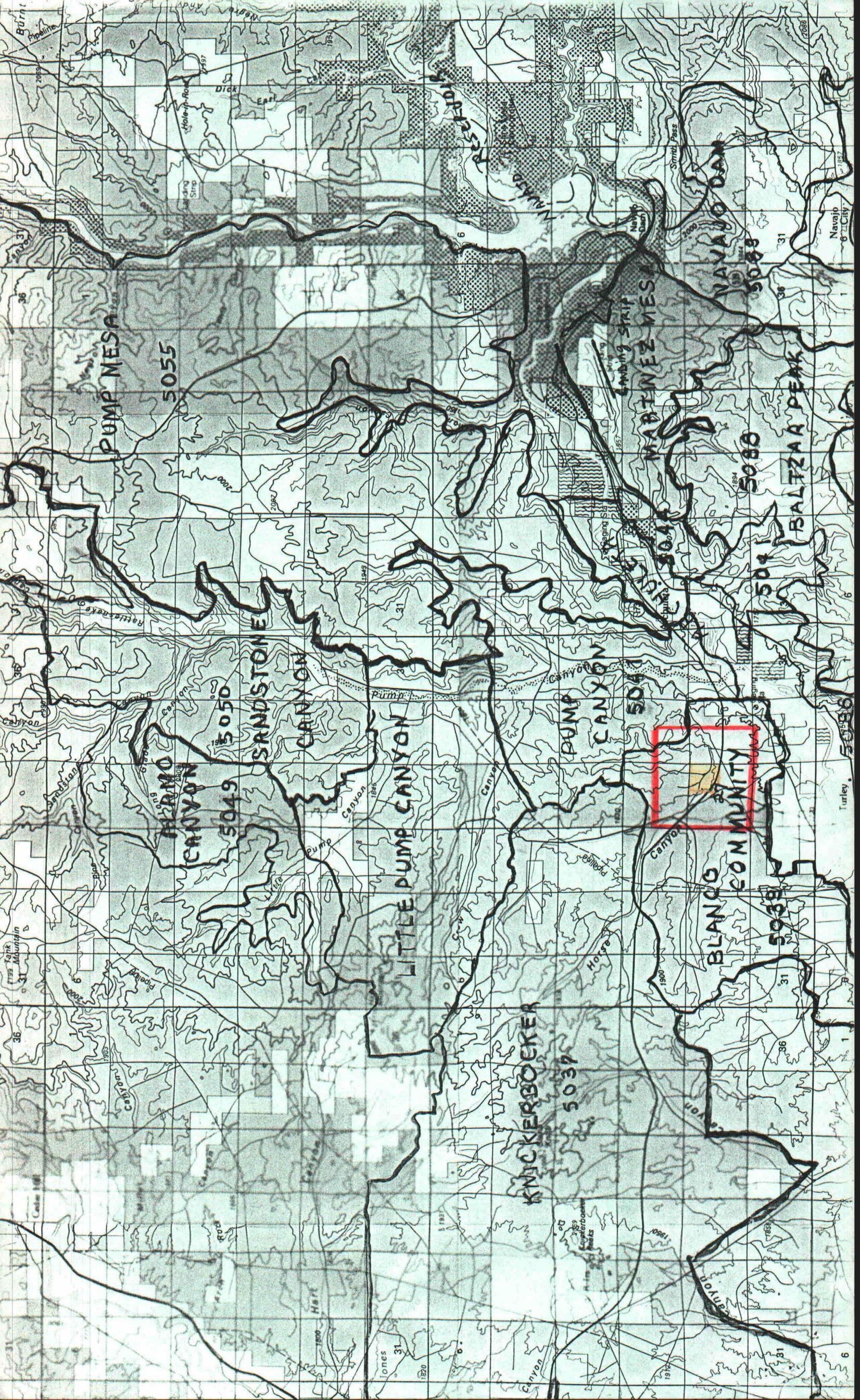
Liner

Size 9 5/8" Cemented with 900 sx.
 TOC 2700 feet determined by circulation
 Hole size 12 1/4"
 Total depth 2700' - 5500'

Tubing size 3 1/2" lined with _____ set in a _____ (material) packer at 7350 (approx.) feet (brand and model) (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formations Morrison, Bluff and Entrada
2. Name of Field or Pool (if applicable) NA
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such intervals and give plugging detail (sacks or cement or bridge plug(s) used). No.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2260' Fruitland; 2660' Pictured Cliffs; 4290' Mesaverde; 6970' Dakota



PUMP MESA

5055

ARMO CANYON

5049

SANDSTONE CANYON

5050

LITTLE PUMP CANYON

KNICKERBOCKER

5037

BLANCO COMMUNITY

5038

PUMP CANYON

5041

MARTINEZ MESA

5080

NAVajo DAM

5083

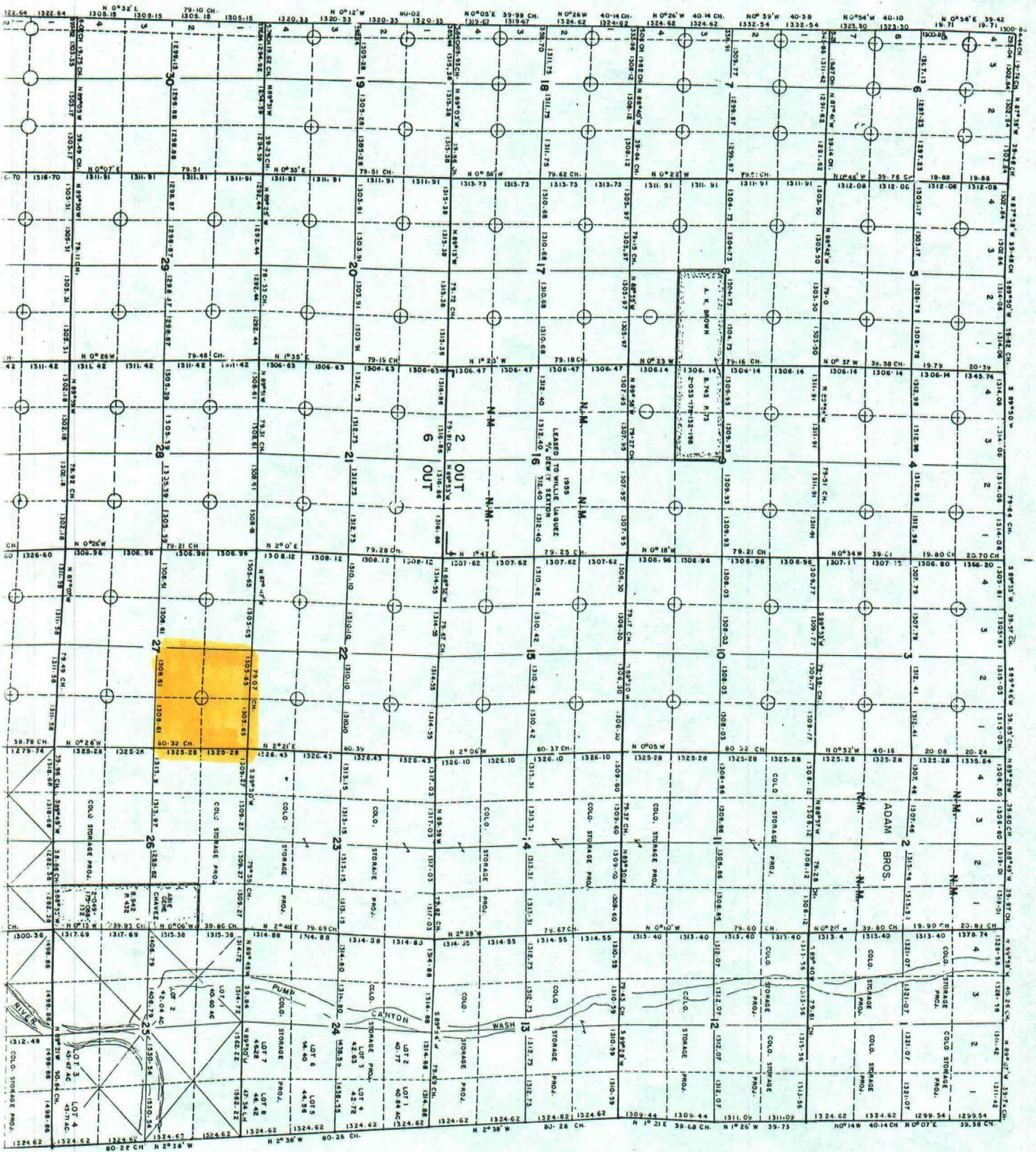
BALTZAA PEAK

5086

Turkey

Navajo City

6

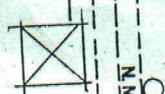


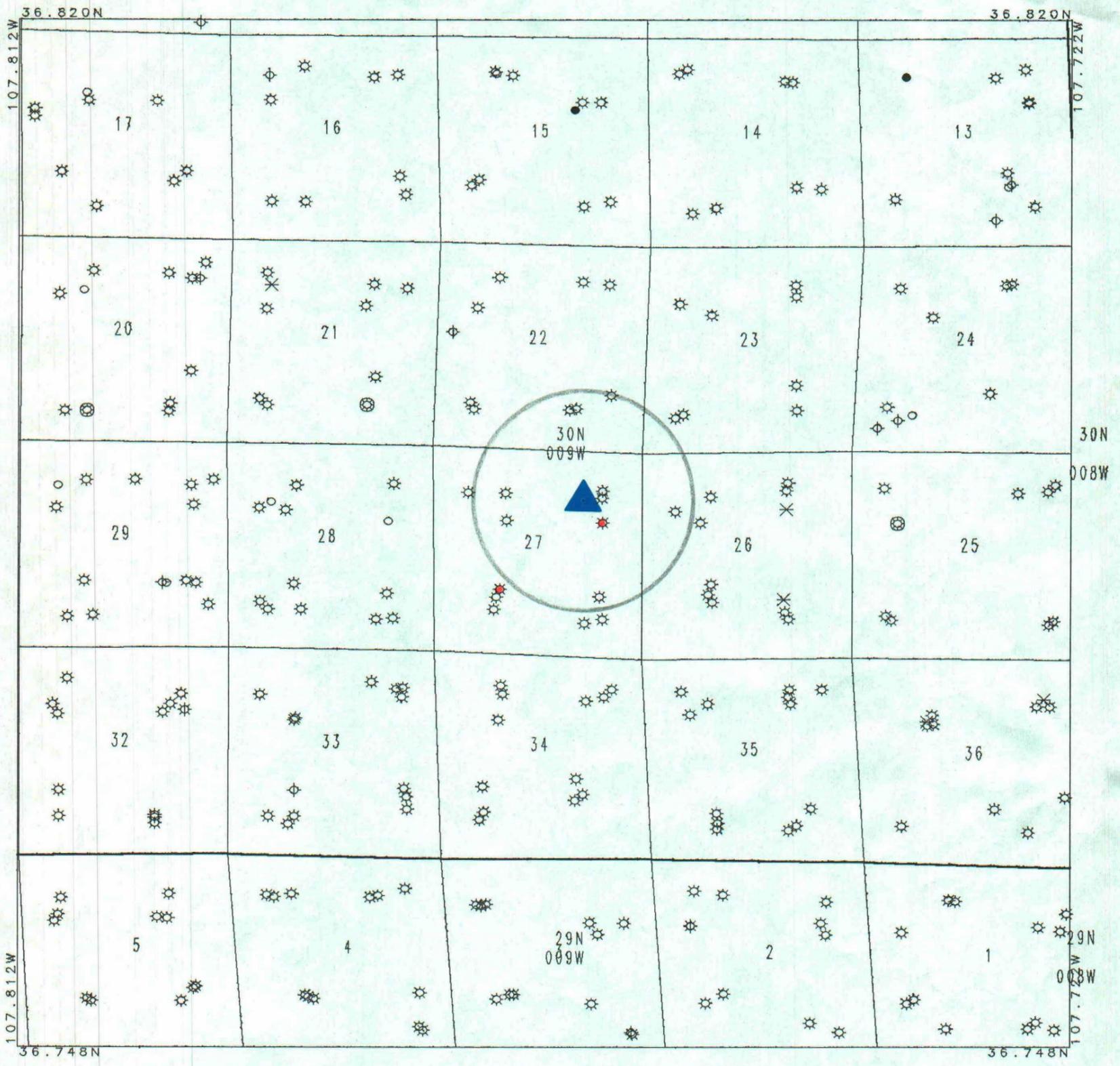
PROPERTY IDENTIFICATION MAP
 SAN JUAN COUNTY
 NEW MEXICO



T 30N R 9W N.M.P.M.

FEDERAL
 NEW MEXICO STATE LAND
 COLO. STORAGE PROJ.
 QUAD MAPS

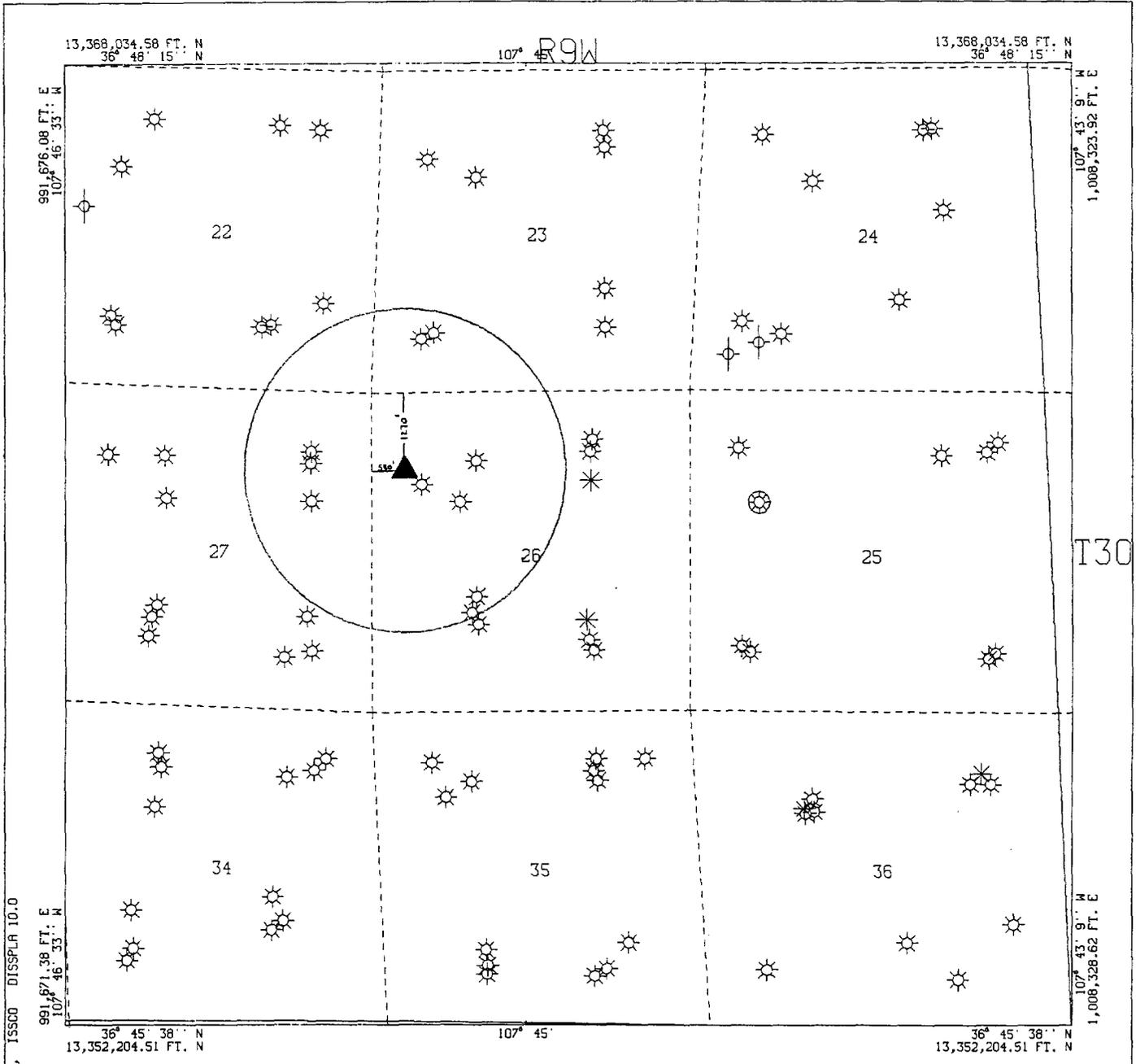




AMOCO PRODUCTION COMPANY
Sec 27-T30N-R9W E. E. Elliott SWD No. 1
San Juan County 1220' FNL X 1520' FEL
New Mexico Sec. 27, T30N, R9W
SCALE= 3,000 FEET/INCH MAY 22, 1989

All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.





All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

POLYCONIC CENTRAL MERIDIAN - 107° 44' 51" W I.O.N
SPHEROID - 6

AMOCO PRODUCTION COMPANY
E E ELLIOTT SWD NO. 1
1270 FT FNL 580 FT FWL
SEC. 26 T30N R9W

SCALE 1 IN. = 2,000 FT. APR 25, 1990

HORIZONTAL DATUM NAD27

PLOT 1 12.19.15 MED 25 APR, 1990 JOB-PV160802, ISSCO DISSPLA 10.0

MJT11581--RUN#90115121131



Amoco Production Company

2325 East 30th Street
Farmington, New Mexico 87401
505-325-8841

R. J. Broussard
District Manager

July 19, 1989

FMP Operating Co.
P. O. Box 60004
New Orleans, LA 70160

File: CBD-232-400.1

Proposed Water Disposal Well
E. E. Elliott SWD #1

Dear Sir:

This is to advise you that Amoco Production Company (Farmington District Office) is requesting approval from the Division Director of the New Mexico Oil Conservation Division to drill a water disposal well:

E. E. Elliott SWD No. 1
1220' FNL x 1520' FEL
Section 27, T30N, R9W
San Juan County, New Mexico

Find attached a copy of the application that is being submitted. Please note that you have 15 days from the date this application is received to file any objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501.

Very truly yours,

R. J. Broussard BS

VAC/slb

Attachment



Amoco Production Company

2325 East 30th Street
Farmington, New Mexico 87401
505-325-8841

R. J. Broussard
District Manager

July 19, 1989

Conoco, Inc.
P. O. Box 2197
Houston, TX 77252

File: CBD-232-400.1

Proposed Water Disposal Well
E. E. Elliott SWD #1

Dear Sir:

This is to advise you that Amoco Production Company (Farmington District Office) is requesting approval from the Division Director of the New Mexico Oil Conservation Division to drill a water disposal well:

E. E. Elliott SWD No. 1
1220' FNL x 1520' FEL
Section 27, T30N, R9W
San Juan County, New Mexico

Find attached a copy of the application that is being submitted. Please note that you have 15 days from the date this application is received to file any objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501.

Very truly yours,

R. J. Broussard

VAC/slb

Attachment



Amoco Production Company

2325 East 30th Street
Farmington, New Mexico 87401
505-325-8841

R. J. Broussard
District Manager

July 19, 1989

Bureau of Land Management
Farmington Resource Area
1235 La Plata Hwy.
Farmington, NM 87401

File: CBD-232-400.1

Proposed Water Disposal Well
E. E. Elliott SWD #1

Dear Sir:

This is to advise you that Amoco Production Company (Farmington District Office) is requesting approval from the Division Director of the New Mexico Oil Conservation Division to drill a water disposal well:

E. E. Elliott SWD No. 1
1220' FNL x 1520' FEL
Section 27, T30N, R9W
San Juan County, New Mexico

Find attached a copy of the application that is being submitted. Please note that you have 15 days from the date this application is received to file any objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501.

Very truly yours,

R. J. Broussard BSS

VAC/slb

Attachment

AFFIDAVIT OF PUBLICATION

Copy of Publication

No. 23738

STATE OF NEW MEXICO,
County of San Juan:

Betty Shipp being duly

sworn, says: That he is the National Ad Manager of

THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the

hereto attached Legal Notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for One consecutive (days) (weeks) on the same day as
follows:

First Publication Wednesday, June 28, 1989

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefor in the amount of \$ 11.66
has been made.

Betty Shipp

Subscribed and sworn to before me this 28th day
of June, 1989.

[Signature]

NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires: June 23, 1990

NOTICE

Notice is hereby given that Amoco Production Company, 2325 E. 30th St., Farmington, New Mexico 87401, 505-325-8841, Attn. Buddy Shaw, intends to drill the E.E. Elliott SWD No. 1 for use as a water disposal well. Application will be filed with the New Mexico Oil Conservation Division.

E.E. Elliott SWD No. 1 will be located in the NW/4NE/4 of Section 27, Township 30 North, Range 9 West, N.M.P.M. The well will be drilled to a total depth of 8535' and the injection zone will be into the Morrison, Bluff, and Entrada Formations. Rate of disposal will be determined by a step-rate injection test.

Any person, firm, association, or corporation, of the State of New Mexico, or the United States of America, deeming that the granting of the above application will impair or be detrimental to their water rights may protest in writing the proposal set forth in said application. The protest shall set forth in writing all protestant's reasons why the application should not be approved and must be filed with the Oil and Gas Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of the date of last publication of this notice.

Legal Notice 23738 published in the Farmington Daily Times, Farmington, New Mexico on Wednesday, June 28, 1989.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)

3. Article Addressed to:
 Bureau of Land Management
 Farmington Resource Area
 1235 La Plata Hwy.
 Farmington, NM 87401

4. Article Number
 P 950 788 442

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address
 X

6. Signature - Agent
 X *Armo Howell*

7. Date of Delivery
 7/21/89

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 950 788 444

RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to *FMP Operating Co*

Street and No. *P.O. Box 60004*

P.O. State and ZIP Code *New Orleans, LA 70160*

Postage *S*

Certified Fee

P 950 788 441

RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to *Conoco*

Street and No. *P.O. Box 2197*

P.O. State and ZIP Code *Houston, TX 77252*

Postage *S*

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)

3. Article Addressed to:
 FMP Operating Co.
 P.O. Box 60004
 New Orleans, LA 70160

4. Article Number
 P 950 788 444

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address
 X

6. Signature - Agent
 X *Armo Howell*

7. Date of Delivery
 JUL 24 1989

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 950 788 442

RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to *Bureau of Land Management*

Street and No. *1235 La Plata Hwy*

P.O. State and ZIP Code *Farmington, NM 87401*

Postage *S*

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing to whom and Date Delivered

Return Receipt showing to whom, Date, and Address of Delivery

TOTAL Postage and Fees *S*

Postmark or Date

PS Form 3800, June 1985

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)

3. Article Addressed to:
 Conoco, Inc.
 P.O. Box 2197
 Houston, TX 77252

4. Article Number
 P 950 788 441

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address
 X

6. Signature - Agent
 X *M.B. McDonald*

7. Date of Delivery
 JUL 24 1989

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401



IN REPLY REFER TO:

3100 (019)

AUG. 0 1 1989

RECEIVED

AUG - 2 1989

New Mexico Oil Conservation Division
State Land Office Building
P. O. Box 2088
Santa Fe, NM 87501

OIL CONSERVATION DIV.
SANTA FE

Gentlemen:

The Bureau of Land Management, Farmington Resource Area, recently received a letter from Amoco Production Company concerning the development of the E. E. Elliott Salt Water Disposal Well No. 1 (T. 30 N., R. 9 W., sec. 27, 1220' FNL and 1520' FEL) San Juan County, New Mexico.

The proposal for a well has not been received in the Farmington BLM office to this date. Therefore, a detailed review of site specific issues surrounding the well have not been reviewed. The well as applied for by Amoco may or may not be approved in this location by BLM subject to our site specific reviews.

The BLM has no specific objections at this time to the proposed well. If you have any questions, please contact Bruce Flinn (505) 327-5344.

Sincerely,


for Ron Fellows
Area Manager

cc: NMOCD, Aztec, NM