



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

RECEIVED

OCT 29 1990

OIL CON. DIV.
DIST. 3

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ADMINISTRATIVE ORDER NO. SWD-404

APPLICATION OF AMOCO PRODUCTION COMPANY

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), Amoco Production Company made application to the New Mexico Oil Conservation Division on October 3, 1990, for permission to complete for salt water its Riddle Well No. 1, located in Unit P of Section 16, Township 30 North, Range 9 West, NMPM, San Juan County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations.
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

- (1) The applicant herein, Amoco Production Company is hereby authorized to complete its Riddle Well No. 1 located in Unit P of Section 16, Township 30 North, Range 9 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Morrison, Bluff and Entrada formations at approximately 7300 feet to approximately 8200 feet through 3 1/2-inch plastic lined tubing set in a packer located at approximately 7250 feet.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

The operator shall run a cement bond log on the 13 3/8" casing string prior to setting any intermediate casing. The operator shall notify the supervisor of the Division's Aztec district office of the date and time of conductance of said bond log in order that said operation may be witnessed.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

Prior to commencing injection operations into said well, the operator shall obtain a formation water sample from the Morrison, Bluff and Entrada formations, and shall have said samples analyzed, with the results to be furnished to the Santa Fe office of the Division.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1460 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Morrison, Bluff and Entrada formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Aztec district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Aztec district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.


Administrative Order No. SWD-404
Amoco Production Company
October 24, 1990
Page 3

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 24th day of October, 1990.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

1000 MID WILAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 10-3-90

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Attn: H. Petanack

Re: Proposed HC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed FMX _____

Gentlemen:

I have examined the application dated 9-24-90
for the Greene Production Co. Riddle SWD #1
Operator Lease & Well No.

P-16-30A-90 and my recommendations are as follows:
Unit, S-T-R

Approve

*Recommend a 21/8" casing for the unit
on any pipe except - 5" casing before an
intermediate casing string is run.*

Yours truly,

Ernest Sanchez

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: P.O. Box 800 Denver CO 80201
Contact party: Brooke Bell Phone: (303) 830-5341
- 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: Brooke S. Bell Title: Sr. Petroleum Engineer
Signature: Brooke S. Bell Date: 9/14/90
- * 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. _____

Riddle 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 injection intervals of 7300' to 8200' 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 water disposal.
4. No remedial cement work is anticipated.
5. The Dakota Formation, top 7070 feet, is the next higher formation known to produce gas in the area; there is no known lower oil or gas producing formation.

VI. No wells within the area of review penetrate the proposed injection horizon.

- 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. Disposal water will be produced from area Fruitland coal wells. Below are water analyses representative of the water which will be disposed of in the subject well.

	Na	Ca	Mg	K	Cl	HCO3	SO4	CO3	TDS
Florance D-1	6350	20	47	-	2609	11578	0	528	21150
Florance K-3	6430	80	15	10	1560	14700	0	0	22800
Riddle B-1	7121	52	53	-	1705	16378	0	0	25300
Schwerdtfeger 1	7484	32	44	-	994	18544	0	0	27100

Riddle SWD No. 1

Compatibility - Attached is a copy of the results of an Amoco scaling tendency program which supports the source water is compatible 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 1530' to 1600'. 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 Riddle 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 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 7320' with overlying unit being Burro Canyon and the underlying unit being type Bluff member. A possible thickness of 400' 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' to 20' thick and separated by shales and siltstones. Overall depth of zone is estimated at 7720' with approximately 300' 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 8162' with the upper 250' being porous sandstone. Rests on Chinle.

- IX. Stimulation will consist of perforating selected porous intervals in the Morrison, Bluff, and Entrada. These intervals will be stimulated using a sand water frac treatment. Details will be provided to the District NMOCD office prior to stimulation.

Riddle SWD No. 1

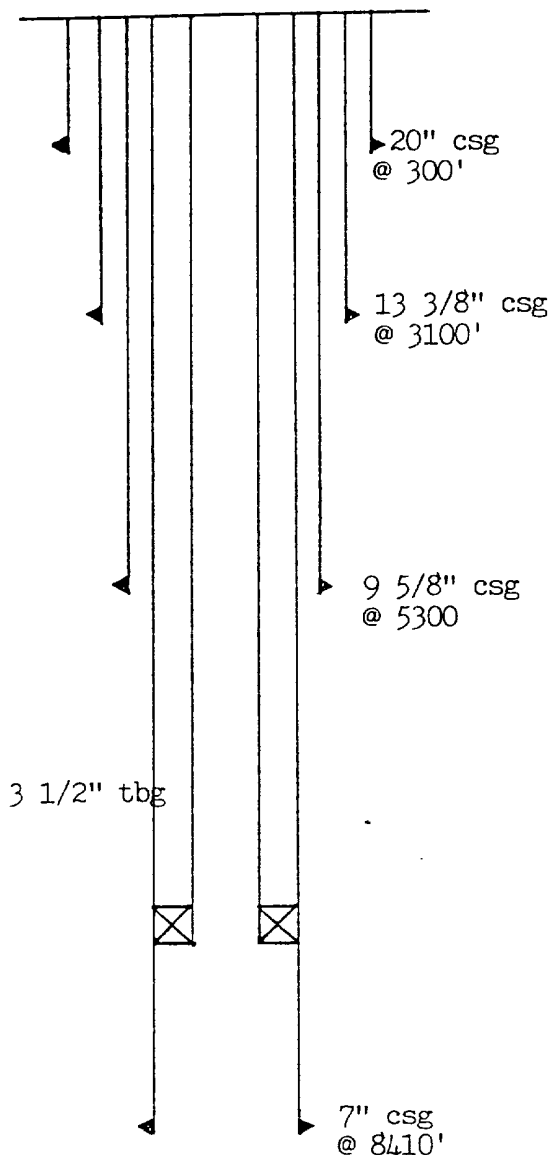
- X. Test information and logs will be provided to the District NMOCD office as available.
- XI. A search of records at the State Engineers Office shows no fresh water wells permitted within a one-mile radius of the proposed location. In addition, a field search of the surrounding area revealed no fresh water wells.
- 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.
- 9/14/90
Date
- Brooke S. Bell
Brooke S. Bell
Sr Petroleum Engineer
- XIII. Proof of notice is attached. Copies of the executed receipts for certified mail will be forwarded once they are returned to Amoco from the postal service. Find attached a copy of the Public Notice published in the local newspaper.

INJECTION WELL DATA SHEET

Amoco Production Company

Riddle SWD

Operator 1	610' FSL X 330' FEL	Lease 16	30N	9W
Well No. San Juan County, New Mexico	Footage Location	Section	Township	Range

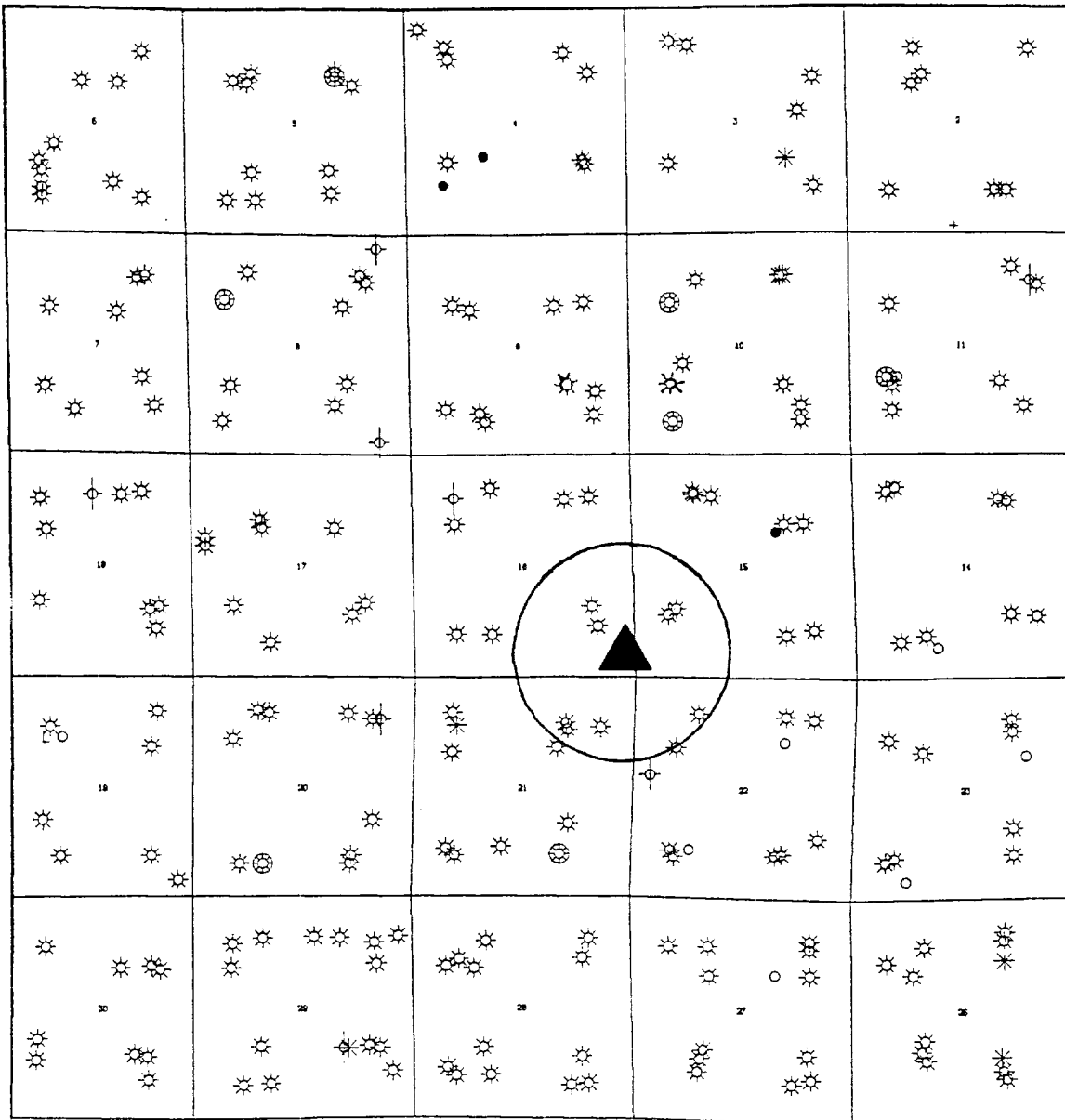
SchematicTabular DataSurface CasingSize 20 " Cemented with 640 sx.TOC surface feet determined by circulationHole size 26"Intermediate CasingSize 13 3/8 " Cemented with 1700 sx.TOC surface feet determined by circulationHole size 17 1/2"Long String Intermediate CasingSize 9 5/8 " Cemented with 1400 sx.TOC 2800 feet determined by bond logHole size 12 1/4"Total depth 5300'Injection interval
(will perforate selected intervals)7300 feet to 8200 feetLiner Long StringSize 7 " Cemented with 700 sx.TOC 5000 feet determined by bond logHole size 8 1/2"Total depth 8410'

Tubing size 3 1/2" lined with plastic set in a
Baker Inverted Lok-Set (material)
packer at 7250 (approx) feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Morrison, Bluff and Entrada
- Name of Field or Pool (if applicable) NA
- Is this a new well drilled for injection? ☒ Yes ☐ No
If no, for what purpose was the well originally drilled? _____
- 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
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2560' - Fruitland, 2728' - Pictured Cliffs, 4347' - Mesaverde, 7070' - Dakota.

R 9 W



T
30
N

AMOCO PRODUCTION COMPANY
 Sec 16-T30N-R9W
 San Juan County
 New Mexico
 Scale: 2640 Ft/Inch Sept 11, 1990

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

ATTACHMENT VII

CALCULATED COMPOSITION OF MIXTURE NO. 1 IN MG/L:
 (HA)= 4810.
 (CA)= 136.
 (MG)= 31.
 (BA)= 0.
 (SR)= 0.
 (CL)= 2123.
 (SO4)= 192.
 (HCO3)= 9697.
 (CO3)= 0.
 PH= 6.3

MOLAL IONIC STRENGTH= 0.229
 SPECIFIC GRAVITY= 1.012

SCALING TENDENCIES(MG/L):

TEMP(F)	P(P.SI)	CO2(P.SI)	CASO4	BASO4	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.

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

ATTEN: LL 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:

ATTACHMENT VII 5.

CDS ID #: 1119

CONSTITUENT	ppm	epa	
Sodium Na +	4760	207.1	
Potassium K +	169	4.3	Item 2A
Calcium Ca ++	1310	65.4	SWD-339
Magnesium Mg ++	29.4	2.4	
Iron Total Fe++ & Fe+++	164	8.8	

POSITIVE SUB-TOTAL 6432.4 287.9779

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.

75 SUITLÉ 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: MORRISON PERFS.
SAMPLED FROM:
WELL ON/OFF:

CDS ID #: 1120

CONSTITUENT	ppm	epa	
Sodium Na +	10600	461.1	Item 3A
Potassium K +	1810	46.3	SWD-339
Calcium Ca ++	685	34.2	
Magnesium Mg ++	65.9	5.4	
Iron Total Fe++ & Fe+++	230	12.4	

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

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

Gorbachev if he were Soviet leader.

During the question-and-answer session at Moscow State, Reagan also said he believes "Germany has rejoined the civilized world" and will not repeat Nazi atrocities.

Reagan, in the Soviet Union at Gorbachev's invitation, said, "We should be teaching our students the languages of each others' countries so that we can really cement the friendship."

"If young people like you, in the world, could get to know each other, there would never be another war," he said in the conference room of the university's mammoth administration building.

Thatcher proposes code

PRAGUE, Czechoslovakia (AP) — In a speech to Parliament today, British Prime Minister Margaret Thatcher proposed that a 35-nation summit this fall adopt a universal code of rights for Europe and North America.

She also urged that the 12-nation European Community offer full membership to Czechoslovakia and Eastern Europe's other new democracies as soon as they have introduced Western-style economies.

Mrs. Thatcher also apologized for the 1938 Munich Treaty, in which Britain endorsed Adolf Hitler's division of this Central European nation.

"We failed you in 1938, when a disastrous policy of appeasement allowed Hitler to extinguish your independence," she said.

M&Ms yanked

HONG KONG (AP) — Authorities ordered all packets of M&Ms candy withdrawn from Hong Kong stores today after an anonymous letter claimed one bag of the candy had been poisoned to punish the U.S. manufacturer for co-sponsoring the Asian Games in Beijing.

The letter, delivered to several newspapers late Monday, says one packet of M&Ms had been laced with sodium cyanide, a deadly poison.

The letter condemns Mars, Inc. of Hackettstown, N.J., which makes M&Ms, for sponsoring the games, which open in Beijing on Saturday.

It criticizes China's Communist leaders for their bloody crackdown on a movement for democracy in China in June 1989. Hundreds of unarmed civilians were killed then when the military cleared central Beijing of protesters.

101

Notice

Notice is hereby given that Amoco Production Company, 200 Amoco Court, Farmington, New Mexico 87401, 505-326-9200, Attn: Buddy Shaw, intends to drill the Riddle SWD No. 1 for use as a water disposal well. Application will be filed with the New Mexico Oil Conservation Division.

Riddle SWD No. 1 will be located in the SE/4SE 1/4 of Section 16, Township 30 North, Range 9 West, N.M.P.M. The well will be drilled to a total depth of 6410' and the injection zone will be in the Morrison, Bull, and Entrada formations. Rate of disposal will be determined by a step-rate injection test.

Any persons, firm, association, or corporation, of 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 the last publication of this notice. Legal No. 26478 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 15, 1990.

Notice

Notice is hereby given that Amoco Production Company, 200 Amoco Court, Farmington, New Mexico 87401, 505-326-9200, Attn: Buddy Shaw, intends to drill the Fiorance SWD No. 2 for use as a water disposal well. Application will be filed with the New Mexico Oil Conservation Division.

Fiorance SWD No. 2 will be located in the NE 1/4NW/4 of Section 21, Township 30 North, Range 9 West, N.M.P.M. The well will be drilled to a total depth of 6600' and the injection zone will be in the Morrison, Bull, and Entrada formations. Rate of disposal will be determined by a step-rate injection test.

Any persons, firm, association, or corporation, of 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 No. 26476 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 18, 1990.

LEGAL NOTICE

Meridian Oil Inc. on behalf of Southland Royalty Company, hereby gives notice to the public that under the provisions of the Natural Gas Policy Act of 1976 (NGPA) it is filing applications for "New Onshore Production and High Cost-Coal Seam Gas" determinations (Section 103 and 107) for the following wells located in San Juan County, New Mexico:

Grenier #101, NE/4 of SW/4 of Section 7, T-31N, R-11W, East Cor #105, NE

(continued on next column)

101

Legal

Notice

Notice is hereby given that Amoco Production Company, 200 Amoco Court, Farmington, New Mexico 87401, 505-327-9200, Attn: Buddy Shaw, intends to drill the Pritchard SWD No. 1 for use as a water disposal well. Application will be filed with the New Mexico Oil Conservation Division.

Pritchard SWD No. 1 will be located in the NE 1/4NW/4 of Section 34, Township 31 North, Range 9 West, N.M.P.M. The well will be drilled to a total depth of 8620' and the injection zone will be in the Morrison, Bull, and Entrada formations. Rate of disposal will be determined by a step-rate injection test.

Any persons, firm, association, or corporation, of 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 the last publication of this notice. Legal No. 26477 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 18, 1990.

(continued on next column)

ervation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of the date of the last publication of this notice. Legal No. 26477 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 18, 1990.

LEGAL NOTICE

Meridian Oil Inc. hereby gives notice to the public that under the provisions of the Natural Gas Policy Act of 1976 (NGPA) it is filing an application for "New Onshore Production and High Cost-Coal Seam Gas" determinations (Section 103 and 107) for the following wells located in San Juan County, New Mexico:

Lewis Park #100, SW/4 of NE/4 of Section 13, T-31N, R-8W

Written comments by the public will be accepted by District Manager, Bureau of Land Management, 435 Montana Rd., Albuquerque, NM for a 15-day period beyond the date the BLM determines the application to be complete.

Legal No. 26438 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 16, 1990.



T. D. Autry
Division Production Manager

Amoco Production Company

Southern Division
1670 Broadway
P.O. Box 800
Denver, Colorado 80201
303-830-4040

September 14, 1990

(See Attached Addressee List)

File: KJK-133-WF

Proposed Water Disposal Well
Riddle SWD No. 1

Dear Sir:

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

Riddle SWD No. 1
610' FSL x 330' FEL
Section 16, 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,

T.D. Autry /KJK

Attachment

Well Name: Riddle SWD #1
Location: SE 1/4 SE 1/4 - 16-T30N-R9W
San Juan County, New Mexico

Parties to be Noticed:

<u>Land</u>	<u>Surface Owner</u>	<u>Working Interest</u>
<u>T30N-R9W</u>		
Sec 15: N 1/2	U.S.A	El Paso Production Company c/o Meridian Oil Inc. P. O. Box 4289 Farmington, New Mexico Total Minatome Corporation P. O. Box 4326 Houston, TX 77210-4326
Sec 15: S 1/2	U.S.A.	Amoco Production Company P. O. Box 800 Denver, CO 80201
Sec 16: All	State of New Mexico	Amoco Production Company Conoco Inc. 3817 Northwest Expressway Oklahoma City, OK 73112-1400
Sec 21: N 1/2	U.S.A.	Amoco Production Company Conoco Inc.
Sec 22: NW 1/4	U.S.A.	Amoco Production Company Conoco Inc.