



# Case No.

6991

# Application

Transcripts

# Small Exhibits

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION BRUCE KING LARRY KEHOE SECRETARY Χ. October 23, 1980 POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827:2434 Mr. S. J. Okerson District Superintendent Re: CASE NO. Amoco Production Company Post Office Box 68 ORDER NO. 6991 <del>R-6478</del> Hobbs, New Mexico 88240 Applicant: Dear Sir: -Amooo Production Company Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case. Ppurs very truly, JOE D. RAMEY Director 1 JDR/fd Copy of order also sent to: Hobbs OCD Artesia OCD Aztec OCD Other д. ÷44 The Print Party THE REAL

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#### STATE OF NEW MEXICO ENERGY AND HINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE HATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6991 Order No. R-6478

APPLICATION OF AMOCO PRODUCTION COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 17, 1980, at Santa Fe, New Mexico, before Examiner Richard L.

NOW, on this 20th day of October, 1960, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED :

That Case No. 6991 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year hereinaboys designated.

> STATE OF NEW MEXICO OH. CONSERVATION DIVISION

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JOE D. RAMEY, Director

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Page STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION وبيه ا STATE LAND OFFICE BLDG. 2 SANTA FE, NEW MEXICO 17 September 1980 3 EXAMINER HEARING ۵ 6 6 IN THE MATTER OF: Application of Amoco Production Com-) pany for salt water disposal, Lea ) 7 CASE 6991 County, New Mexico. 6 9 BEFORE: Richard L. Stamets - 10 LI W. BOYD, C.S.R. Rt. 1 Box 193-B Re. Nor 11 TRANSCRIPT OF HEARING 1 12 13 SALLY APPEARANCES  $11^{11}$ 14 15 Ernest L. Padilla, Esq. Legal Counsel to the Division 16 For the Oil Conservation State Land Office Bldg. Division: Santa Fe, New Mexico 87501 17 See Se 18 19 For the Applicant: 20 21 22 un the second

Page MR. STAMETS: Wc'll call next Case 6991. MR. PADILLA: Application of Amoco Production Company for salt water disposal, Lea County, New Mexico. MR. STAMETS: At the request of the applicant this case shall be dismissed. (Hearing concluded.) SALLY W. BOYD, C.S.R. Rt. Y Box 192-B Santa Fe, New Mexico 57501 Phone (305) 455-7409 

Page í CERTIFICATE 2 3 I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservaб tion Division was reported by me; that the said transcript 6 is a full, true, and correct record of the hearing, prepared 7 by me to the best of my ability. 8 Jacey W. Boyd C.S.E. 9 SALLY W. BOYD, C.S.R. RI. 1 Box 193-B 10 11 New Mexico (Sn5) 455-74 12 13 I do hereby certify that the foregoing is 14 a complete record of the proceedings in the Examiner hearing of Case No. 622 15 neard by me on 16 **?Examiner** Oil Conservation Division 17 18 19 20 21 22 22 24

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| <b>)</b> 1  | STATE OF NEW MEXICO<br>ENERGY AND MINERALS DEPARTMENT   |          |            |
| 2   | OIL CONSERVATION DIVISION<br>STATE LAND OFFICE BLDG.  |          | •          |
| 3   | SANTA FE, NEW MEXICO<br>17 September 1980   |          | el an<br>A |
| 4<br>• • • • • • • • • • • • • • • • • • •                                    | EXAMINER HEARING  |          |            |
| 6   | IN THE MATTER OF:   |          |            |
| 7<br>8  | Application of Amoco Production Com-)<br>pany for salt water disposal, Lea ) CASE<br>County, New Mexico. ) 6991 |          |            |
| 9   |   |          |            |
| 01 BOYD, C.S.R<br>Box 192-B<br>M Mercoo 87501<br>03) 455-7409<br>03) 455-7409 | BEFORE: Richard L. Stamets  |          |            |
| Box 192-B<br>W Merceo<br>803 455-740<br>203 455-740                           |   |          |            |
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| <b>E S</b> 14   | APPEARANCES   |          |            |
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|   | For the Oil Conservation Ernest L. Padilla, Esq.<br>Division: Legal Counsel to the Division                     |          |            |
| <b>18</b><br>)  | State Land Office Bldg.<br>Santa Fe, New Mexico 87501   |          |            |
| î <del>,</del><br>19  |   |          |            |
| 20<br>21  | For the Applicant:  |          |            |
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Page MR. STAMETS: We'll call next Case 6991. MR. PADILLA: Application of Amoco Pro-duction Company for salt water disposal, Lea County, New Mexico. MR. STAMETS: At the request of the applicant this case shall be dismissed. للهيف فالمحو والأ أتوذعه (Hearing concluded.) SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Senta Fe. New Merico 87501 and the set of the second s

Pad CERTIFICATE I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conserva-tion Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability. SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B I do hereby certity that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. neard by me on\_\_\_\_\_ , Examiner Oil Conservation Division 2法



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Amoco Production Company

Houston Region 600 Jefferson Building Post Office Box 3092 Houston, Texas 77001

J. R. Barnett Regional Engineering Manager

September 12, 1980

File: JCA-986.51NM-3154

Case No. 6991 Salt Water Disposal Application Re: South Hobbs Unit 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. Joe D. Ramey

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Gentlemen:

Amoco Production Company requests the dismissal of Case No. 6991 which is currently scheduled for the Examiner's Docket of September 17, 1980.

Yours very truly,

HMB/rw



Amoco Production Company Houston Region 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

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OIL CONSERVATION DIVISION

SANTA FE

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J. R. Barnett Regional Engineering Manager

August 29, 1980

File: JCA-986.51NM-3128

Case No. 6991 Application for Salt Water Disposal Re: South Hobbs Unit Well No. 103 Lea County, New Mexico

State of New Mexico 011 Conservation Division P. 0. Box 2088 Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests Case No. 6991, set for examiner hearing of 9-3-80, be continued to the next examiner hearing on 0.17.80. This confirm our worked request by Mr. 147 Allon on on 9-17-80. This confirms our verbal request by Mr. Jim Allen on 8-29-80.

J. R. Barnetty

#### Docket No. 29-80

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Dockets Nos. 30-80 and 31-80 are tentatively set for October 1 and 15, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 17, 1980

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, . STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

ALLOWABLE: (1) Consideration of the allowable production of gas for October, 1980, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.

(2) Consideration of the allowable production of gas for October, 1980, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 7021: Application of Gulf Oil Corporation for simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a previously approved 477-acre non-standard gas proration unit comprising the N/2 and SE/4 of Section 19, Township 19 South, Range 37 East, Eumont Gas Pool, to its B. V. Culp (NCT-A) Wells Nos. 3 and 9 located in Units F and J, respectively, of said Section 19.

CASE 6961: (Continued from August 20, 1980, Examiner Hearing)

Application of Conoco Inc. for a dual completion and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Meyer A-29 Well No. 11 to be drilled at an unorthodox location 990 feet from the North line and 660 feet from the East line of Section 29, Township 22 South, Range 36 East, to produce gas from the Langley-Devonian and -Ellenburger Pools thru parallel strings of tubing, the E/2 of said Section 29 to be dedicated to the well.

CASE 7022: Application of Texas Pacific Oil Company, Inc. for a non-standard proration unit and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a 320-acre non-standard proration unit comprising the N/2 of Section 9, Township 22 South, Range 36 East, Jalmat Gas Pool, to its Wells Nos. 40 and 63 located in Units A and C, respectively, of said Section 9. Applicant further seeks approval to simultaneously dedicate its Wells Nos. 14, 36, 42, and 62 located in Units B, M, E, and K, respectively, of Section 11, Township 22 South, Range 36 East, to a standard proration unit to be comprised of all of said Section 11.

CASE 7008: (Co

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#### (Continued from August 20, 1980, Examiner Hearing)

Application of Coronado Exploration Corp. for eight compulsory poolings, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying eight 40-acre promation units, being the NE/4 NE/4 of Section 4 and the NM/4 NE/4 of Section 5, both in Township 12 South, Range 28 East, and the NW/4 SE/4 of Section 6, the NE/4 NW/4 of Section 23, the NE/4 SE/4 of Section 28, the SE/4 SE/4 of Section 29, the NE/4 NW/4 of Section 32, and the SE/4 NW/4 of Section 33, all in Township 11 South, Range 28 East, each to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.

CASE 7004:

(Continued from August 20, 1980, Examiner Hearing)

Application of Anadarko Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Morrow formations underlying the N/2 of Section 12, Township 19 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for appervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7023:

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Application of Shell Oil Company for pool creation and temporary special pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Pennsylvanian oil pool for its Askew Well No. 1 located in Unit L of Section 2, Township 5 South, Range 33 East, and the promulgation of special pool rules therefor, including a provision for 80-acre spacing.

# Examiner Hearing - Wednesday - Septembor 17, 1980

CASE 7011: (Continued from August 20, 1980, Examiner Hearing) Application of Amoco Production Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Blanco-Pictured Cliffs production in the wellbores of the following six wells: Elliott "C" No. 1, SE/4 of Section 9, Township 30 North, Range 9 West; Elliott "B" No. 8, NE/4 of Section No. 1, SE/4 of Section 9, Township 30 North, Range 9 West; Elliott "B" No. 8, NE/4 of Section 10; "A" Nos. 3 and 2, NE/4 and NW/4, Section 11; "D" No. 7, SW/4 of Section 11; and "E" No. 1, NW/4 of Section 14, all in Township 29 North, Range 9 West.

CASE 7019: (Continued from September 3, 1980, Examiner Hearing)

Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsyl-vanian formation underlying the W/2 of Section 30, Township 23 South, Range 25 East, to be dedi-cated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

(Continued from September 3, 1980, Examiner Hearing)

Application of Amoco Production Company for salt water disposal, Lea County, New Mexico. Application of Amoco Production Company for sait water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in a 100 foot perforated interval between 4400 feet and 4800 feet in its South Hobbs Unit Well No. 103 in Unit B of Section 15, Township 19 South, Range 38 East, Hobbs Granwing San Andres Paul Grayburg-San Andres Pool.

CASE 7024:

CASE 7025:

CASE 6991:

Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsyl-vanian formation underlying the E/2 of Section 35, Township 18 South, Range 29 East, to be dedi-cated to a well to be drilled at a standard location thereon. Also to be considered will be the cated to a well to be drilled at a standard location thereon. Also to be considered as well as actual cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsyl-vanian formation underlying the W/2 of Section 35, Township 18 South, Range 29 East, to be dedi-cated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and cost of arilling and completing sala well and the allocation of the cost thereor as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

(Continued from August 20, 1980, Examiner Hearing)

CASE 7005:

Application of Sol West III for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for his Turkey Track-Morrow Sand Well No. 1 in Unit I of Section 26, Township 18 South, Range 28 East.

CASE 6822: (Continued from September 3, 1980, Examiner Hearing) In the matter of Case 6822 being reopened pursuant to the provisions of Order No. R 6293 which order created the West Double X-Wolfcamp Gas Pool as a retrograde gas condensate pool and set special production limitations therein. Operator(s) may appear and present evidence to establish the true nature of the reservoir and proper rates of withdrawal therefrom. Application of Bass Enterprises Production Company for pool creation, Eddy County, New Mexico. Application of Bass Enterprises froduction company for pool creation, Edgy county, New Mexico. Applicant, in the above styled cause, seeks the creation of a new Bone Spring oil pool for its Big Eddy Unit Well No. 60 located in Unit J of Section 20, Township 21 South, Range 28 East, and

CASE 7026:

the promulgation of special rules therefor including a gas-oil ratio limitation of 10,000 to one. Application of W. A. Moncrief, Jr. for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for his Marathon State Com. Well No. 1 in Unit J of Section 11, Township 24 South, CASE 7027:

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Range 24, East.

Docket No. 29-80

# Examiner Hearing - Wednesday - September 17, 1980

#### Docket No. 29-80

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CASE 7028: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, deleting, and extending certain pools in Chaves, Eddy, and Los Courties, New Mexico:

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pocl for Wolfcamp production and designated as the North Bell Lake-Wolfcamp Pool. The discovery well is Amoco Production Company State HL Well No. 1 located in Unit L of Section 2, Township 23 South, Range 33 East, NMPM. Said pool would comprise:

#### TOWNSHIP 23 SOUTH, RANGE 33 EAST, NMPM Section 2: W/2

(b) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Delaware production and designated as the Golden Lane-Delaware Poel. The discovery well is Meadco Properties, Ltd. Hudson Federal Well No. 1 located in Unit C of Section 4, Township 21 South, Range 29 East, NMPM. Said pool would comprise.

Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMPM Section 4: Lots 3, 4, 5, 6, 11, and 12

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the McDonald-Atoka Gas Pool. The discovery well is Harvey E. Yates Company Heyco Betenbough Well No. 1 located in Unit C of Section 32, Township 13 South, Range 36 East, NMPM. Said pool would comprise:

# TOWNSHIP 13 SOUTH, RANGE 36 EAST, NMPM Section 32: N/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Seven Rivers pro-duction and designated as the Pearsall-Seven Rivers Pool. The discovery well is Arrowhead Oil Corporation Hover Well No. 3 located in Unit D of Section 32, Township 17 South, Range 32 East, NMPM. Said pool would comprise:

# TOWNSHIP 17 SOUTH, RANGE 32 EAST, NMPM Section 32: NW/4

(e) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the West Tonto-Wolfcamp Pool. The discovery well is Inexco Oil Company Federal Com 7 Well No. 2 located in Unit E of Section 7, Township 19 South, Range 33 East, NMPM. Said pool would comprise:

### TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM

NW/4

(f) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Bone Spring pro-duction and designated as the Winchester-Bone Spring Pool. Further to assign approximately 38,955 barrels of discovery allowable to the discovery well, Marathon Oil Company Martinez "31" Federal Well No. 1 located in Unit F of Section 31, Township 19 South, Range 29 East, NMPM. Said pool would comprise: would comprise:

# TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM Section 31: NW/4

(g) CONTRACT the horizontal limits of the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 18: N/2 and SW/4

(h) CONTRACT the horizontal limits of the La Rica-Morrow Gas Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPH

Section 2: All

(i) EXTEND the Airstrip-Upper Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 35: NE/4 Section 36: NE/4 TOWNSHIP 18 SOUTH, RANGE 35 EAST, NHPM Section 31: NW/4

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#### Page 4 of 6 Examiner Hearing - Wednesday - September 17, 1980

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#### Docket No. 29-80

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(j) EXTEND the Airstrip-Lower Bone Spring Pool in Lea County, New Mexico, to include therein:

| TOWNSHI | P 18 | SOUTH, | RANCE 34 | EAST, | MPM |
|---------|------|--------|----------|-------|-----|
| Section | 23:  | SW/4   |          |       |     |
| Section | 26:  | NE/4   |          |       |     |

(k) EXTEND the Artesia Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM Section 22: E/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NHPM Section 35: W/2 NW/4

TOWNSHIP 19 SOUTH, RANGE 27 EAST, NMPM Section 2: NW/4 and N/2 SW/4

(1) EXTEND the Bough-San Andres Gas Pool in Les County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NHPH Section 14: NE/4

(m) EXTEND the Buffalo-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM Section 8: E/2

(n) EXTEND the North Burton Flat-Wolfcamp Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NHPM Section 29: N/2

(o) EXTEND the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 16: W/2

(p) EXTEND the Chaveroo-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM Section 4: E/2 E/2

(q) EXTEND the South Culebra Bluff-Bone Spring Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM Section 24: S/2 NW/4 and N/2 S/2

(r) EXTEND the Eagle Creek Permo-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM Section 31: All

(s) EXTEND the South Empire-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM Section 12: All

(t) EXTEND the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 28: N/2 N/2

(u) EKTEND the East Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM Section 3: E/2

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#### Examiner Hearing - Wednesday - September 17, 1980

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#### Docket No. 29-80

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(v) EXTEND the West Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 22 EAST, NMPM Section 24: N/2

(w) EXTEND the Langley-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM Section 28: S/2

(x) EXTEND the Langley-Ellenburger Gas Pool in Les County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM Section 28: S/2

(y) EXTEND the Los Medanos-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANCE 30 EAST, NMPM Section 1: S/2

(2) EXTEND the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM Section 17: S/2 Section 19: E/2 Section 20: W/2

(aa) EXTEND the Lusk-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM Section 13: All

(bb) EXTEND the West Malaga-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM Section 8: E/2 Section 9: S/2

(cc) EXTEND the Mesa-Queen Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NHPM Section 1: SW/4

(dd) EXTEND the Hidway-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM Section 8: SE/4

(ee) EXTEND the Nash Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 30 EAST, NMPM Section 7: 5/2

(ff) EXTEND the North Osudo-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 36 EAST, NMPM Section 29: S/2

(gg) EXTEND the East Red Lake Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM Section 25: NW/4 and N/2 SW/4

(hh) EXTEND the Sand Point-Horrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM Section 3: Lots 1, 2, 7, 8, 9, 10, 15 and 16

(ii) EXTEND the Shoebar-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 28: N/2 and SW/4 Examiner Hearing - Wednesday - September 17, 1980

Docket No. 29-80

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(jj) EXTEND the Shugert-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPH Section 1: Section 2: N/2

(kk) EXTEND the Sioux Tansill-Yates-Seven Rivers Pool in Les County, New Mexico, to include

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM Section 9: SE/4

(11) EXTEND the Teas Yates-Seven Rivers Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM Section 19: SE/4

Page 6 of 6

(mm) EXTEND the Tom-Tom San Andres Pool in Chaves County, New Mexico, to include therein:

| Section 24 | SOUTH, R | ANGE 31 | PACT   | 1004 |   |  |
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| Section 35 | NW/4     |         |        |      | ÷ |  |
|            |          |         |        |      |   |  |

(nn) EXTEND the Turkey Track-Atoka Gas Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 19 SOUTH BANCE 20

| The second second | SOUTH. | RANGE | 20 | FACT   | 30.000                                    |
|-------------------|--------|-------|----|--------|---|
| Section 1:        | \$/2   |       | ~  | ens1   | MAWN                                      |
| Section 2:        | \$/2   |       |    |        |   |
| Section 11:       | N/2    |       |    |        | 1. A. |
| Section 14:       | A11    |       |    | per la |   |
|                   |        |       |    |        |   |

(oo) EXTEND the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM Section 7: S/2 Section 18: All

(pp) EXTEND the Winchester-Wolfcamp Gas Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 19 SOUTH, PANCE 28 EAST, NHPM Section 34: SE/4

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(qq) EXTEND the Yarrow-Delaware Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM Section 22: NE/4

(rr) EXTEND the Young-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM Section 4: S/2 Section 9: E/2

and and the second s

Page STATE OF NEW MEXICO 1 ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION 2 STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 3 September 1980 3 4 EXAMINER HEARING 5 6 à IN THE MATTER OF: 7 Application of Amoco Production Com-) pany for salt water disposal, Lea ) CASE 6991 8 County, New Mexico. ŷ BOYD, C.S.R. 10 BEFORE: Daniel S. Nutter 11 12 TRANSCRIPT OF HEARING 13 SA 14 APPEARANCES 15 16 Ernest L. Padilla, Esq. For the Oil Conservation Legal Counsel to the Division 17 Division: State Land Office Bldg. Santa Fe, New Mexico 87501 For the Applicant:

MR. NUTTER: Call next Case 6991. MR. PADILLA: Application of Amoco Production Company for salt water disposal, Lea County, New Mexico.

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SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Santi Fc. New Merico 87501 Phone (305) 455-7405

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MR. NUTTER: The applicant has requested continuance.

Case Number 6991 will be continued to the Examiner Hearing scheduled to be held at this same place at 9:00 o'clock a.m. September 17th, 1980.

(Hearing concluded.)

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Page MR. NUTTER: Call next Case 6991. MR. PADILLA: Application of Amoco Pro-duction Company for salt water disposal, Lea County, New ູ 4 Mexico. MR. NUTTER: The applicant has requested continuance. Case Number 6991 will be continued to the Examiner Hearing scheduled to be hold at this same place at 9:00 o'clock a. m. September 17th, 1980. SALLY W. BOYD, C.S.R. Rt. I Box 193-B Sunta Fc, New Menico 87501 Phone (305) 455-7409 (Hearing concluded.) star Philipsign

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CERTIFICATE I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conserva-tion Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability. SALLY W. BOYD, C.S.R. that the foregoing is a contrie e second of the proceedings I do her ... the Examiner hearing of Case No. heard by me on Examiner OII Conservation Division 

# BEFORE THE OIL CONSERVATION COMMISSION

#### STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF AMOCO PRODUCTION COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

NO. 6991

#### ENTRY OF APPEARANCE

The undersigned hereby enter their appearance on

behalf of Amoco Production Company with Clyde Mote of Houston, Texas.

ATWOOD, MALONE, MANN & COOTER, P.A. By P. O. Drawer 700

Roswell, New Mexico 83201



#### Docket No. 27-80

Dockets Nos. 29-80 and 30-80 are tentatively let for September 17 and October 1, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - HEDNESDAY - SEPTEMBER 3, 1980

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

CASE 7015: Application of Tenneco Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Pennsylvanian formations underlying the S/2 of Section 36, Township 18 South, Range 29 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

<u>CASE 7016</u>: Application of Harvey E. Yates Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Mississippian formations underlying the E/2 of Section 18, Township 15 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

#### CASE 7006: (Continued from August 20, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Northwest Gladiola Unit Area, comprising 1,280 acres, more or less, of State and fee lands in Townships 11 and 12 South, Range 37 East.

CASE 7007: (Continued from August 20, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Morrow and Atoka production in the wellbore of its North Travis 12 Deep Well No. 1 located in Unit O of Section 12, Township 18 South, Range 28 East.

CASE 7017: Application of Bass Enterprises Production Company for pool creation, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Bone Spring gas pool for its Big Eddy Unit Well No. 60 located in Unit J of Section 20, Township 21 South, Range 28 East, with classification of wells with a GOR of 20,000 or more as gas wells.

CASE 7018: Application of Shell Oil Company for an exception to Division Rule No. 202(B), San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a one year extension to the exception to Rule 202(B) previously approved by Order No. R-5655 for certain of its Carson Unit wells in the Bisti Pool. Applicant further requests an administrative procedure for any future extensions.

- CASE 7019: Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 30, Township 23 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 6991: (Cont

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(Continued from August 6, 1980, Examiner Hearing)

Application of Amoco Production Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in a 100 foot perforated interval between 4400 feet and 4800 feet in its South Hobbs Unit Well No. 103 in Unit B of Section 15, Township 19 South, Range 38 East, Hobbs Grayburg-San Andres Pool.

#### CASE 7000: (Continued from August 20, 1980, Examiner Hearing)

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Application of Cavalcade Oil Corporation for an unorthodox oil well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its McClay Well No. 11 2385 feet from the South line and 1834 feet from the West line of Section 33, Township 18 South, Range 30 East, the NE/4 SW/4 of said Section 33 to be dedicated to the well.

#### Page 2 of 2 Examiner Hearing - Wednesday - September 3, 1980

#### Docket No. 27-80

<u>CASE 7020</u>: Application of Mess Petroleum Co. for pool creation, special pool rules and an oil discovery allowable, Rio Arriba and San Juan Counties, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Gallup oil pool for its South Blanco Federal Well No. 1-6 located in Unit A of Section 6, Township 23 North, Renge 7 West, and special rules therefor, including a provision for 80-acre spacing units. Applicant further seeks a discovery allowable for the aforesaid well.

#### CASE 6822: (Reopened and Readvertised)

In the matter of Case 6822 being reopened pursuant to the provisions of Order No. R-6293 which order created the West Double X-Wolfcamp Cas Pool as a retrograde gas condensate pool and set special production limitations therein. Operator(s) may appear and present evidence to establish the true nature of the reservoir and proper rates of withdrawal therefrom.

#### CASE 6996: (Continued from August 20, 1980, Examiner Hearing)

Application of John E. Schalk for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Blanco Mesaverde Pool underlying the NE/4 of Section 8, Township 25 North, Range 3 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

Docket No. 28-80

DOCKET: COMMISSION HEARING - THURSDAY - SEPTEMBER 4, 1980

OIL CONSERVATION COMMISSION - 9 A.H. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

#### CASE 6889: (DE NOVO)

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Application of Belco Petroleum Corporation for directional drilling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill a well, the surface location of which is 1980 feet from the North line and 920 feet from the West line of Section 36, Township 22 South, Range 30 East, in such a manner as to bottom it at an unorthodox location within 100 feet of a point 1320 feet from the North line and 2640 feet from the West line of said Section 36 in the Morrow formation, the N/2 of said Section 36 to be dedicated to the well.

Upon application of Duval Corporation this case will be heard De Novo pursuant to the provisions of Rule 1220;

Evidence and testimony or arguments in this hearing shall be limited to the issue of whether Duval Corporation has standing to object to the application of Belco Petroleum Corporation.

Paga 1 STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT 2 OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. 3 SANTA FE, NEW MEXICO 6 August 1980 4 EXAMINER HEARING 5 6 IN THE MATTER OF: 7 Application of Amoco Production Com- } 8 pany for salt water disposal, Lea CASE J County, New Mexico. ) 6991 9 } SALLY W-BOYD, C.S.R. 10 BEFORE: Daniel S. Nutter 11 Bex 193-B 12 TRANSCRIPT OF HEARING 13 14 APPEARANCES 15 16 For the Oil Conservation Ernest L. Padilla, Esq. 17 Division: Legal Counsel to the Division State Land Office Bldg. 6.75 18 Santa Fe, New Mexico 87501 19 20 For the Applicant: 21 22 23 24 25 AND TRACKING PRESERVICE AND AND THE ADDRESS OF THE

MR. NUTTER: Call Case Number 6991. 2 MR. PADILLA: Application of Amoco Production Company for salt water disposal, Lea County, New 3 4 Mexico. 5 MR. MOTE: Clyde Mote for Amoco Production 6 We'd ask that case be continued until September 3rd, Company, 7 please. 8 MR, NUTTER: Case Number 6991 will be 9 continued to the Examiner Hearing scheduled to be held at this SALLY W. BOYD, C.S.R. 10 same place at 9:00 a. m. September 3rd, 1980. 11 Phone (505) 455-74 Rt. 1 Box 193-) 12  $\left( \right)$ (Hearing concluded.) anta 13 14 15 16 17 18 19 20 21 22 23 24

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3 1 CERTIFICATE 2 3 I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that 4 the foregoing Transcript of Hearing before the Oil Conserva-5 tion Division was reported by me; that the said transcript 8 is a full, true, and correct record of the hearing, prepared 7 by me to the best of my ability. g 9 Solly W. Boyd C.S.R. 10 BOYD. C.S 11 12 13 14 I do hereby certify that the foregoing is a complete record of the proceedings in 15 the Examiner hearing of Case No. 6991, heard by me on Quego 1980. 16 , Examiner Oil Conservation Division 17 18 19 20

Page STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION 2 STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 3 6 August 1980 7 4 EXAMINER HEARING 5 6 IN THE MATTER OF: 7 Application of Amoco Production Com-) CASE 8 pany for salt water disposal, Lea 6991 County, New Mexico. 9 SALLY W. BOYD, C.S.R. 10 BEFORE: Daniel S. Nutter 11 12 TRANSCRIPT OF HEARING 13 14 APPEARANCES 15 16 Ernest L. Padilla, Esq. For the Oil Conservation 17 Legal Counsel to the Division Division: State Land Office Bldg. Santa Fe, New Mexico 87501 18 19 ALL ALL 20 For the Applicant: 21 22 23 24 26

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Page 1 MR. NUTTER: Call Case Number 6991. 2 MR. PADILLA: Application of Amoco Pro-3 duction Company for salt water disposal, Lea County, New 4 Mexico. 5 MR. MOTE: Clyde Mote for Amoco Production 6 Company. We'd ask that case be continued until September 3rd, 7 please. 8 Case Number 6991 will be MR NUTTER: 9 continued to the Examiner Hearing scheduled to be held at this 10 same place at 9:00 a. m. September 3rd, 1980. 11 12 (Hearing concluded.) 13 14 15 16 17 18 19 20 21 22 23

SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B

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Pag CERTIFICATE I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conserva-tion Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability. SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Santa Fe, New Merico 87501 Phone (305) 455-7409 I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner incaring of Case No 699. heard by me on any , Examiner Oil Conservation Division - ZANA CARA





Amoco Production Company Post Office Box 68 Hobbs, New Mexico 88240

Case 6991

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S. J. Okerson District Superintendent July 8, 1980

File: SJO-986.51 x WF-833

Re: Application for Salt Water Disposal South Hobbs Unit Well No. 103 Hobbs Grayburg San Andres Lea County, New Mexico

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

Gentlemen:

Amoco Production Company requests administrative approval to dispose of produced water from the Hobbs Grayburg San Andres field into the San Andres formation in our South Hobbs Unit Well No. 103, located 990' FNL & 2310' FEL, Section 15, T-19-S, R-38-E, Lea County, New Mexico. In accordance with Rule 701-C, we are attaching hereto our "Application to Dispose of Salt Water by Injection Into a Porous Formation". Also attached is a plat, a diagramatic sketch of the proposed injection well and a water analysis of the produced water to be injected. All acreage within a half mile radius of the proposed injection well is unitized into the South Hobbs Grayburg San Andres Unit.

South Hobbs Unit Well No. 103, the proposed injection well, was originally drilled as a producing well in the Hobbs Grayburg San Andres. Prior to conversion to a disposal well, the subject Well will be deepened to a TD of 4822'. We will run a 4-1/2" flush joint liner from 3790' to TD and cement with 90 sx Class C cement. The interval to be perforated will be chosen after running logs. Approximately 100' will be perforated with 4 JSPF. Produced water from our South Hobbs Unit will be disposed of in the perforated San Andres interval through plastic coated tubing and packer set at approximately 4300'. Water will be injected at a maximum rate of 7500 bbl per day.

Yours very truly,

5.5. Openson to

Attachments

cc: NMOCD E. D. Newman Dave Lenard

| moco Production C  |                    | E OF SALT WA           | TER BY INJECTIC       | NS REAL POROUS  |  |                                       |
|--|--------------------|------------------------|-----------------------|---|--|---------------------------------------|
| AMARA PRODUCTION U   | ompany             | WELL NO.               | P. O.                 | Box 68, Hobbs   | and the second               |                                       |
| C NAME   |                    | 103                    | Gray                  | ourg San Andre  |  | · · · · · · · · · · · · · · · · · · · |
| South Hobbs Unit   |                    |                        | 990 FEET FROM         | North L   | INE AND  | FEET FROM THE                         |
| UNIT LETTER  |                    | L 15 LOCATED           | RANGE 38-E            | NMPM.   |  |                                       |
| East LINE, SECTION ]   | <u>.</u>           | CASING DEPTH           | AND TUBING DATA       | TOP OF CEME   | NT TOP DETE  | RMINED BY                             |
| NAME OF STRING   | SIZE               |                        |                       | surface   | circula  | ted                                   |
|  | 12-1/2"            | 166'                   | 100 sx                | btm 12-1  | /2" calcula  | ted                                   |
| ERMEDIATE  | 8-1/4"             | 3186'                  | 700 sx                |   |  |                                       |
| NG STRING  | 6-5/8"             | 3997'                  | 50 SX                 | TH OF TUBING PACKER   |  |                                       |
| BING   | 2-3/8"             |                        | Guiberso              | n Unit <u>VI - ap</u>   | BOTTOM OF FORMATION  | 2001                                  |
| plastic coated   | ATION              | in a tract franciscus. | 400                   | An all the second se |  | 300'                                  |
| San Andres<br>INJECTION THROUGH TUBING, CASI   | IN G. OR ANNULUS?  |                        | Bnr Bnr               | rox 100. Derme  | en 4400'-4800'   | PERFORATED IN ANY                     |
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| 400  | 7500               | clo                    | sed                   | Pressure  |  | J#<br>S ATTACHEOT                     |
| NUECTION 1 4500<br>ANSWER YES OR NO WHETHER THE I<br>ERALIZED TO SUCH A DEGREE AS TO<br>STOCK, IRRIGATION, OR OTHER GEN  |                    | ARE MIN- WA            | TER TO BE DISPOSED OF | Yes   | Yes  |                                       |
| TOCK, IRRIGATION, OR OTHER GEN   | WNER (OR LESSEE, 1 | F STATE OR FEDERAL     | LAND                  |   | an an an an Anna Anna Anna Anna Anna Anna Anna Anna An<br>An Anna Anna |                                       |
| Dave Lenard, Boy<br>LIST NAMES AND ADDRESSES OF A<br>All acreage wit   | hin 1/2 mile       | <u>e is unitize</u>    | nd in the South       | <u>1 Hobbs Graybu</u>   | <u>*g San Andres ∪</u>   | <u></u>                               |
|  |                    | <u></u>                | <u>0</u>              |   | ILE THE NEW MÉXICO S   | VATE ENGINEER                         |
| 1. Contract the second state of the second | ON BEEN I SURFACE  | OWNER                  |                       | ATOR WITHIN ONE-HALF M  | Yes  |                                       |
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| HAVE COPIES OF THIS APPLICATI<br>SENT TO EACH OF THE FOLLOWIN  |                    |                        | <u> </u>              | 0<br>ate to the best of my  |  |                                       |
| THE REAL ATT   | ACHEO TO PLAT OF   | les                    |                       |   | 7/9/   |                                       |
| THE WENT ATT   | ACHEO TO PLAT OF   | e information abo      | Admin Analyst         |   | 11 41  | /80                                   |

JUL 1 5 1980 nn C-108 Revised 1-1-65 NEW MEXICO OIL CONSERVATION COMMISSION APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTANA PPROUS FORMATION OPPRATOR Amoco Production Company P. O. Box 68, Hobbs, NM 88240 South Hobbs Unit 103 Lea Grayburg San Andres 990 North LINE AND 2310 UNIT LET FEET FROM East LINE, SECTION -15 19**-**S RANGE 38-E CASING AND TUBING DATA NAME OF STRING SETTING DEPTH SACKS CEMENT SIZE TOP OF CEMENT TOP DETERMINED BY SURFACE CASING 12-1/2" 166' 100 sx surface circulated INTERMEDIATS 8-1/4" 3186' 700 sx btm 12-1/2" calculated LONG STRING 6-5/8" 3997' 50 SX unknown TUBING 2-3/8" <u>Guiberson Unit VI - approx. 4300'</u> plastic coated San Andres IS INJECTION THROUGH TUBING, CASING, OR ANNULUSI 4000' 5300<sup>1</sup> PERFORATIONS OR OPEN HOLET | PROPOSED INTERVAL (S) OF INJECTION Tubing Perforations Approx 100' between 4400'-4800' HAS WELL EVER BEEN PERFORATED IN AN ZONE OTHER THAN THE PROPOSED INJECTION ZONE? 15 THIS A NEW DISPOSAL? NO LIST ALL SUCK PERFORATED Producing Well TO SEAL OFF OR SOULEZE EAC DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 400 DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5300' DEPTH OF BOTTOM OF NEXT HIG OIL OR GAS ZONE IN THIS AREA 3900 ANTICIPATED DAILY INJECTION YOLUME (BBLS.) MAXIMUN OR CLOS IS INJECTIO PRESSURE? 4500 7500 Pressure 850# closed NATURAL WATER IN ANALYSES ATTAC HETHER THE F DEGREE AS TO R OTHER GENE ING WATERS ARE M Yes Yes Yes AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE Dave Lenard, Box 27, Hobbs, NM 88240 (1) MILE OF THIS INJECTION WELL All acreage within 1/2 mile is unitized in the South Hobbs Grayburg San Andres Unit THE NEW MEXICO STATE ENGINEE URFACE OWNER EACH OPERATOR OF THIS WELL HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? NA ELECTRICAL L Yes DIAGRAMMATIC SKETCH OF WEL Yes THE THE FOLLOWING ITEMS ATTACHED No Yes Yes I hereby certify that the information above is true and complete to the best of my knowledge and belief. Admin Analyst 7/9/80 (Tile) (Sig (Date) NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing,

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if the applicant so requests. SEE RULE 701.

E C JUL 1 6 1980

NEW MEXICO OIL CONSERVATION DUNS RVATION AVENATION APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTSANTA FE

| OFFATOR   |  |  | ADDRESS                                  | ······································  |  |                                   |
|---|--|--|--|---|--|-----------------------------------|
| Amoco Production C  | ompany   | WELL NO.   | P.                                       | 0. Box 68, Hot  |  | 0<br>UNTY                         |
| South Hobbs Unit  | · · · · · · · · · · · · · · · · · · ·            | 103  | Gr                                       | ayburg San Andr   | es   | Lea                               |
| UNIT LETTER B   | ; wi   | ELL IS LOCATED   | 990                                      | OM THE North  | LINE AND2310   | FEET FROM 1                       |
| East LINE, SECTION 1  | 5 τοι  | NNSHIP 19-S  | RANGE 38-E<br>G AND TUBING DAT           | <u>ым</u> рм,   | ·····  |                                   |
| NAME OF STRING  | SIZE   | SETTING DEPTH  | SACKS CEMEN                              |   | ENT  | ETERMINED BY                      |
| URFACE CASING   |  |  |  |   |  | ETERMINED BT                      |
| NTERMEDIATE   | 12-1/2"  | 166'   | 100 sx                                   | surface   | circ   | ulated                            |
| ONG STRING  | 8-1/4"   | 3186'  | 700 sx                                   | btm 12-   | 1/2" calc  | ulated                            |
| UBING   | 6-5/8"   | 3997'  | 50 sx                                    | PTH OF TUBING PACKER  |  |                                   |
| plastic coated  | 2-3/8"   | L  | 1  | <u>on Unit VI - ap</u>  | prox. 4300'  |                                   |
| San Andres  |  |  | 400                                      | Segura de la companya |  | 5300'                             |
| S INJECTION THROUGH TUBING, CASING  | OR ANNULUS?                                      | PERFORATION  |  | DPOSED INTERVAL (S) OF IN   | ECTION   |                                   |
| Tubing  | IF ANSWER IS                                     |  | rations App                              | prox 100' betwe   | INAS WELL EVED AT  |                                   |
| NO  | Producin   | a Wéll   |  |   | ZONE OTHER THAN T<br>TION ZONE?NO  | HE PROPOSED INJE                  |
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| BLS.) 4500  | 7500   | close  |  | IS INJECTION TO BE BY GR<br>PRESSURET<br>Pressure   |  | PRESSURE (PSI)                    |
| ISWER TES OR NO WHETHER THE FOLL<br>NALIZED TO SUCITA DESERTS AS TO BE<br>FOCK, IRRIGATION, OR OTHER GENERAL                                |  |  | TO BE DISPOSED OF                        | NATURAL WATER IN DISPO-   |  |                                   |
| OCK, IRRIGATION, OR OTHER GENERAL   | USK ~  |  | Yes                                      | Yes   | Yes  |                                   |
| ME AND ADDRESS OF SURFACE OWNER<br>Dave Lenard, Box 2<br>ST NAMES AND ADDRESSES OF ALL OF   | 7, HODDS,  | NM 88240   | THIS INJECTION WELL                      | a di 👼 da se  | Com Andrea 1   |                                   |
| All acreage within  | 1/2 1111   | <u>is unicized</u>   | In the south                             | MODUS Grayourg  | <u>San Andres (</u>  | <u>nic.</u>                       |
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| YE COPIES OF THIS APPLICATION BEE   | N SURFACE OWN                                    | EA   | EACH OPERATO                             | R WITHIN ONE-HALF MILE  | THE NEW MEXICO ST  | ATE ENGINEER                      |
|   | Yes  |  | NA                                       |   | <u>Yes</u>   |                                   |
| E THE FOLLOWING ITEMS ATTACHED T<br>S APPLICATION (SEE RULE 701-B)  | - <b>1</b>                                       |  | ELECTRICAL LO                            | 56  | OIAGRAMMATIC SKE   | TCH OF WELL                       |
| $\sim$  | <u>  Yes</u>                                     | المراجع المراجع<br>محمد المراجع ال | <u>i No</u>                              |   | <u> </u>   |                                   |
| I hereby cert   | ify that the inf                                 | ormation above is  | true and complete                        | to the best of my know  | ledge and belief.  |                                   |
| Bat Alair   | 5  | A.d.m  | in Analyst                               |   | 7/9/8  | 0                                 |
| (Signature)   |  | <u>^uin</u>  | (Title)                                  |   |  | ate)                              |
| DTE: Should waivers from the<br>not accompany this app<br>from the date of receipt<br>ceived by the Santa Fe<br>if the applicant so request | lication, the N<br>by the Comm<br>office, the ap | iew Mexico Oil<br>hission's Santa F<br>plication will be   | Conservation Comm<br>re office, If at th | nission will hold the<br>e end of the 15-day w  | application for a aiting period no pr  | period of 15 da<br>atest has been |

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| sister Chas.B. Cochran<br>ital Stally Mort<br>B B P II: 678<br>B B P II: 678<br>B B B P II: 678  | (e70)         To U         Multil Methelil &<br>RuthEur menus(S) %           ARCo,<br>HB,P         (i Amoco<br>filmani         (Amoco<br>HB,P           B-1306         Falmani         (H B,P)           Tit/p"         1 A 1573           Tit/p"         1           Store         1  | Morothon # Terry 9:50 array<br>Stote 1: 0.8 terry 9:50 m/P<br>Morel McMethelit(1)(-2010 Meril and<br>Guil Amoco Borony<br>H.B.P 1:00-112 (Marco<br>B.243 1 1.00-112 (Marco<br>1.00-112 (Marc  | State 94 95 167 1675 1675 1675 1675 1675 1675 1675   | A Peccelek, eral, Mi   | 5.1. 6010<br>1. 1931<br>1. 1931<br>1 |
| erol<br>4151 ArbustoEnergy M<br>4151 Lowrence Motthe<br>41102 Het ovelogy<br>4054 Hites velocy   | Auf Burger<br>Mariel Marker Geidel<br>Mariel Marker (1)2<br>Auf Burger<br>Marker (1)2<br>Marker (1)2<br>Store<br>Store<br>Celsor (2)<br>Marker (2)<br>Store<br>Celsor (2)<br>Celsor  | Guil MBD Trace<br>HBD Trace<br>B-243 Lever Dars Lever<br>Store Vier Dars Lever<br>ATA, Interesting Lever<br>MBA Exercises (Construction)<br>Mark Restances (Construction)<br>Mark Performances (Construction)<br>Pennzeil<br>2 - 1 - 82 Status  | 16-20 Kaopeto + J.1 Selman<br>16- Seroco III - e 10 ce<br>11-10-10-64<br>11-10-10-64<br>11-10-10-64<br>10-10-10-10-10-10-10-10-10-10-10-10-10-1  | Widen<br>Widen<br>Widen<br>Wolten<br>Wolten<br>Wolten<br>Voding<br>Jock Wright, etal<br>J  | Jusphini Sharp J.A.S.<br>sodingE.Botes<br>121 63<br>139623<br>U.S., MI J.H. Peocock Saml,<br>.S.etmen(3) FronkSemaneral Fronkc   |
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| Adelia F Blakey, M. Gro M.<br>Evelyn M. McNeill Grocen<br>all Relayed W. Ike Lovelody<br>9 10-82 / 11-16-84<br>Corner Drig: Mark Peod<br>1 16 924<br>1 16 925<br>1 16 925   | ach M. Howk.<br>Ins. etol. M. J. & Wywredwr M.<br>Morityn Colests)<br>Cermer   | 9 38 Inc 1 Stand Stranger Provide Selmon et al. No. 2015 Inc. 1 Stand Stranger Stran   |
|   | io 19 - 9 - 9 - 9 - 10 - 10 - 10 - 10 - 10   | US 1911-27- Accord States 1911<br>1915 - 27- Accord Construction - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1916 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 26672<br>1917 - 27- C, Jobert J, J, States - 267   |
| Ann I (Internet) (Internet)<br>(Internet) (Internet)<br>Internet (Internet)   | 37     ike Lovelody     ike Lovelody       9     10-4-964     9-6-84       9     28-84     9-11-82       9i     6-084     9-11-82       9i     8-084     9-11-82       10     9-28-84     10-3-84       10     9-33     33       1ke Lovelody     11-3-84       11-120     81       11-120     81       11-120     9-144   | Addel Frinis Line Stores ANA DINE i L'és Excon Marothon MC<br>Addel Frinis Line Stores Ana Dine Star Addel Store Store Stores Addel Store   |
| Wight Contection & U.S. MI  | Wild T WWW PUBT  | Pronteil 9 7 84 1 5 2 84 9 25-83 U.S. MI 1032 ELLethy 1052 1 4 4 11  |
| 11 Internet State of   | alle Lovelody is a set white different in the set of th   | E.J. Goodson (S)       ponilul U.S., and Meerlin Hughes       Darriere of Hooper of Louis Cubbring Darriere of Hooper of Louis Cubbring Since of Units (Lubbring Since of Units (Lubring Since of Units (Lubbring Since of Uni  |
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| perator<br>Amo og Divo d  |                                | · · · · · · · · · · · · · · · · · · · | Leas   | 0  |                  | SANTA  | ON DI Well yo.   | 7 |
| AllOCO Prod   | Uction Compa                   | Township                              |  | Ith Hobbs G<br>Range   | County           |  | E 105/01/03  |   |
| В   | 15                             | 19-S                                  |  | 38-E   | Le               |  |  |   |
| clual Fostage Loca<br>990   |                                | lorth                                 |  | 310  |                  | East   |  |   |
| ound Lovel Clev.  | Producing Fe                   |                                       | line and C<br>Pool   |  | feet from the    |  | line<br>Dedicated Acreage;   | - |
| 1 Outline the   | e acreage dedic                | ated to the a                         | ubject well by   | colored pane   | l or hachur      | marke on   | Acros  |   |
| <ol> <li>If more that<br/>interest and</li> <li>If more that</li> </ol> | an one lease is<br>d royalty). | dedicated to                          | o the well, out<br>arship is dedic   | linc cach and<br>ated to the we  | identify the     | ownership  | thereof (both as to working<br>of all owners been consoli-   |   |
| Yes   | No If a                        | nswer is "yes                         | ;" type of con   | solidation   |                  |  |  |   |
| lf answer is  | s "no;" list the               | owners and t                          | ract descriptio  | ns which have  | actually be      | en consolio  | lated. (Use reverse side of  |   |
| No allowabl   | necessary.<br>c will be assign | ed to the well                        | until all inter  | ests have bee  | n consolidat     | ted (by con  | nmunitization, unitization,<br>n approved by the Commis-   |   |
|   | 1                              |                                       | T  |  | <b>_</b>         | 1  | CERTIFICATION  | 7 |
|   |                                |                                       | 0990   | ,<br>  |                  | toined h   | certily that the information con-<br>erein is true and complete to the<br>ny knowledge and belief.   |   |
| ·   |                                |                                       |  | <br>   |                  | Name<br>Bo   | 5 Dairs  |   |
|   |                                |                                       |  | and a state of the second s<br>Second second s |                  | Position<br>Admi   | n. Analyst   |   |
|   |                                |                                       |  |  |                  | Company<br>/IOCO P   | roduction Company  |   |
|   |                                |                                       |  |  |                  | Date   | 3-80   |   |
|   |                                |                                       | in a statistica da secono<br>en la secono de la s<br>estatistica de la secono de la se<br>estatistica de la secono de la se |  |                  | 1 hereby   | certily that the well location   |   |
| •   |                                |                                       |  |  |                  | shown on<br>notes of   | this plat was plotted from field<br>actual surveys made by me or<br>supervision, and that the same   |   |
|   |                                |                                       |  |  |                  | shown on<br>notes of<br>under my<br>is true o                            | this plat was plotted from field<br>actual surveys made by me or   |   |
|   |                                |                                       |  |  |                  | shown on<br>notes of<br>under my<br>is true o<br>knowledg<br>Dato Survey | this plat was plotted from field<br>actual surveys mode by me or<br>supervision, and that the same<br>nd correct to the best of my<br>a and belief.                          |   |
|   |                                |                                       |  |  |                  | shown on<br>notes of<br>under my<br>is true o<br>knowledg<br>Dato Survey | this plat was plotted from field<br>actual surveys made by me or<br>supervision, and that the same<br>nd correct to the best of my<br>a and belief.<br>Professional Engineer |   |

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| 10' File A<br>535.11               | moco Production Company<br>RESEARCH CENTER<br>WATER ANALYSIS  | T.S. or   | File No<br>2b. No<br>ield No<br>/ell No  | 19   |
|------------------------------------|---|---|--|--|
|                                    |   |   |  |  |
| OCATION SAMPLED: Region Houston    |   |   |  |  |
| tate (Province) New Mexico         | Coupty (Parish)   |   | JDDS UNIL  |  |
| wp. 195 Rng. 38E Sec.              | Ouarici (Isd.)  | Other (Meridian)  | •  |  |
|                                    | Wildcat ( ) Field Well (  | ) Field name  |  |  |
| imple collected from Wellhead      | Date5-13-79   | Sample collected by                                     |  |  |
| nterval sampled10                  | Interval nameS  | an Andres   | ····   |  |
| ecovery                            |   |   |  |  |
| orm 97 transmitted by V. E. Staley | Date6-6-79  | Authorized by   |  |  |
| ORGANIC CONSTITUENTS in mg/1       |   | NTIONAL MAJOR ION                                       |  |  |
| BOTTOM MIDDLE TOP MUD              |   |   | · · · · · · · · · · · · · · · · · · ·  | 1  |
|                                    | - ( · · · · ·   | Major % of Total<br>lons Major                          | Reaction<br>Value  | % of Total<br>Reaction   |
| lucne                              |   | mg/1 lons   | meq 1  | Value  |
| <u>Gavs</u>                        |   | ,002 21.71  | 43.58  | 29.52  |
|                                    | Galcium Ca++<br>Magnesium Mg++  |   | 12.38  | 8.39   |
|                                    | Potassium K+  | 217 4.71  | 17.84  | 12.09  |
| DESCRIPTION OF SAMPLE              | a international and a second se | ,870 40.55  | 52.73  | 35.73  |
| mple used for detailed analyses    | Bicarbonate HCOs 1  | ,240 26.89  | 20.34  | 13.78  |
| te received                        | Sulfate SO4   | 35 .76  | .73  | .49  |
| ndition as received                | Carbonate CO3   | 0 0   | 0  | 0  |
| lor                                | •   | ,612  | 4,180  |  |
| lor                                |   |   |  | mg/1<br>mg/1   |
| spended solids                     | Resignivity 1.31  | obm-meters at   |  | - <u>77</u> %F   |
| or Auorescence                     |   | gravity 1.003 at  |  | 73 °F  |
|                                    | Ryznar stability index (2pl   | Hs-pH)at  |  | ° F  |
| QUALITY OF SAMPLE                  | OTHER   | IONS AND DISSOLVED                                      | SOLIDS   |  |
| BOTTOM MIDDLE TOP                  | CATIONS mg/1  | ANIONS mg/1   | OTHERS   | mg '1  |
| loride                             |   | · · · · · · · · · · · · · · · · · · ·                   |  |  |
| MMENTS:                            | · · · · · · · · · · · · · · · · · · ·   |   |  | · · · · · · · · · · · · · · · · · · ·  |
| MMEIN 13;                          |   |   | - · ·  | ·  |
|                                    |   | ···   |  | <del> </del>   |
|                                    |   |   | . <u> </u>   |  |
|                                    | REMARKS AND CONCLUS   | IONS:   |  |  |
|                                    |   |   |  |  |
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|                                    |   |   |  | · · · · · · · · · · · · · · · · · · ·  |
| A. R. Reed                         | _ 7   | D   |  |  |
| V. E. Staley                       | - 1, 1111   | KINMAL  |  | 6 00 70  |
| G. W. Schmidt                      | _ Analyst   | Danva   | _Date  | 6-22-79  |
|                                    | - 7   |   | Water charts on l  | back (   |
|                                    |   |   | - MILI (1/4/1) VII (   |  |
|                                    | <b>zana</b> ng kalang kanalan sa mang kanang kan  | anda na an airs ann ann ann ann ann ann ann an ann an a |  | لالتكور الاستيكية بالع والمالة المالية .<br>والماليون الاستيكية بالع والمالة المالية . |
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| 10' File 35.11  | moco Production Company       T.S. or File No.         RESEARCH CENTER       Lab. No. <u>T25452</u> WATER ANALYSIS       Field No.   |
|---|--|
|   | API Well No  |
| ACATION SAMPLED. Dury Houston   | Distance Nothe   |
| Operator (Plant) AMOCO  | Division District Hobbs<br>Well No. 126 Lease South Hobbs Unit   |
| State (Province) New Mexico   | County (Parish) Cea<br>Quarter (Isd.) Other (Meridian)   |
| Twp. 195 Rng. 38E Sec.  | Quarter (Lsd.)Other (Meridian)   |
|   | Wildcat () Field Well ( ) Field name<br>Date 5-7-79 Sample collected by  |
| Sample collected from Wellhead  | Date 5-7-79 Sample collected by  |
| Interval sampled to to  | Interval name San Andres   |
| Recovery  |  |
| Form 97 transmitted by V. E. Staley   | Date 6-6-79 Authorized by  |
| ORGANIC CONSTITUENTS in mg/1  | CONVENTIONAL MAJOR ION ANALYSIS  |
| BOTTOM MIDDLE TOP MUD   | Major % of Total Reaction % of Total   |
| kenzene.  | -lons Major Value Reaction   |
| olucne  | mg/1 lons meq 1 Value  |
| IC Gaxes  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |
| · · · · · · · · · · · · · · · · · · ·   |  |
|   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |
| DESCRIPTION OF SAMPLE   | Chloride CL. 1,740 35.55 49.07 32.58   |
| ample used for detailed analyses  | " 2 Bicarbonate HCO3- 1,550 31.66 25.42 16.87  |
| Date received   | <u>Q Sulfate SO4 40 .82 .83 .55</u>  |
| ondition as received  |  |
| olor  | Total 4,895  |
| dor<br>ssrended solids  | Total solids by evaporation4,440mg/1NaCl resistivity equivalent (Dunlap)3,868mg/1  |
| ottom sediment  | Resistivity <u>1.30</u> ohm-meters at <u>77</u> °F   |
| il or fluorescence  |  |
|   | Ryznar stability index (2pHs-pH)atrF   |
| QUALITY OF SAMPLE   | OTHER IONS AND DISSOLVED SOLIDS  |
| BOTTOM MIDDLE TOP   | CATIONS mg/1 ANIONS mg/1 OTHERS mg/1   |
| hloride MIDULE<br>n mg/1:   |  |
| OMMENTS:  |  |
|   | an <mark>an ann an ann an Anna an Anna an an an an an an ann an</mark>   |
| (a) A start and the second s<br>second second s<br>Second second secon<br>second second sec | · · · · · · · · · · · · · · · · · · ·  |
|   |  |
|   | REMARKS AND CONCLUSIONS:   |
|   | [4] A. Barris, J. M. Kanada, and K. S. Maraka, A. S. Katala, and K. Katala, "A strain of the stra    |
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| A. R. Reed  | - R R  |
| V. E. Staley  | - Dam Mamas  |
| G. W. Schmidt   | - Analyse Jalle Rames Date 6-22-79   |
|   | — 이상 이상 가슴 가슴 이상 이상 이상 가슴  |
| 월월(周期) 1974년 4월 1월 1월 1월 1974년 1월 1974년 1월 1975년 1월 1975년<br>1974년 1월 1977년 1월 1971년 1월 197  | Water charts on back ( )   |
| <b>5.4.7</b> 0  |  |
| <b>540</b> Fe 79  |  |
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| 10'. (ille C  | Amoco Production Compa  | any 🦂                                     | T.S. or                               | File No.  |                               |  |
|---|---|---|---------------------------------------|---|-------------------------------|--|
| - (D'. File C<br>535.11 C   | RESEARCH CENTER   | RESEARCH CENTER                           |                                       | Lab. No. T25436<br>Field No   |                               |  |
| 637   | WATER ANALYSIS  |   |                                       |   |                               |  |
|   | •   |   |                                       | Well No.  |                               |  |
| LOCATION SAMPLED: Region Houston  | Division  |   | Hobb                                  | <b>~</b>  |                               |  |
| Operator (Plant) Amoco  | Division52  | Lease                                     | Sout                                  | s<br>h Hobbs Uni  | t                             |  |
| State (Province) New Mexico   | County (Parish)   |   | Lea                                   | · · · · · · · · · · · · · · · · · · ·   |                               |  |
| Twp. 195 Rng. 38E Sec   | Onarrer (1sd)   | Other                                     | (Meridian)                            |   |                               |  |
|   | Wildcat ( )-Field W<br>Date 6-4-79  | cli ( ) Field                             | name                                  |   |                               |  |
| Sample collected from Wellhead  |   |   | le collected b<br>San Andri           | /   |                               |  |
| Interval sampled tototo   |   |   | ·····                                 |   |                               |  |
|   |   |   | ·····                                 |   |                               |  |
| Form 97 transmitted by V. E. Staley   | Date 6-6-79   | Autho                                     | prized by                             |   |                               |  |
| ORGANIC CONSTITUENTS in mg/1  | CON   | IVENTIONAL                                | MAJOR ION                             | ANALYSIS  | <u></u>                       |  |
| BOTTOM MIDDLE TOP MUD   | [   | Major                                     | % of Total                            | Reaction  | % of Total                    |  |
|   | <u> </u>  | lons                                      | Major<br>Ions                         | Value   | Reaction<br>Value             |  |
| Toluene   | Sodium Na +   | <u>(mg/1)</u>                             | مستعد حججت                            | meq 1   |                               |  |
|   | Calcium Ca++  | <u>2,774</u><br>260                       | <u>29.66</u><br>2.78                  | 120.68  | <u>41.54</u><br><u>4.47</u>   |  |
| en e  | Kagnesium Mg++  | <u><u>141</u></u>                         | 1.51                                  | 11.59   | 3.99                          |  |
|   | O Potassium K+  |   |                                       |   | ) <u></u>                     |  |
| DESCRIPTION OF SAMPLE   |   | 3,690 >                                   | 39.47                                 | 104.06  | 35.83                         |  |
| Sample used for detailed analyses   |   | 2,390                                     | 25.56                                 |   | 13.49                         |  |
| Date received   | $\frac{Q}{Z}$ Sulfate SO <sub>4</sub>   | 95  | 1.02                                  | 1.98  |                               |  |
| Condition as received   | 207.41  | <u>0</u><br>9,350                         | 0_                                    | 0   | 0                             |  |
| Colur   |   |   | · · · · · · · · · · · · · · · · · · · | 8,100   | mg/1                          |  |
| Ddur<br>uspended solids   | Total solids by evaporati<br>NaCl resistivity equivale  | nr (Dunlan)                               | · · · · · · · · · · · · · · · · · · · | 7.686   |                               |  |
| kottom sediment   |   | .700 0                                    | nm-meters at                          |   | <u></u> °F                    |  |
| Dil or fluorescence   |   |   |                                       |   |                               |  |
| OMMENTS:  | REMARKS AND CONC  |   |                                       |   |                               |  |
| $\left\{ e^{-i\omega t} e$   |   |   |                                       | · ·   |                               |  |
|   |   | •   |                                       |   |                               |  |
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|   | <b></b>   | ş   |                                       |   |                               |  |
| C: A. R. Reed   | — <u>)</u> <u>//</u>  | N   |                                       | •   | . >                           |  |
| V. E. Staley<br>G. W. Schmidt   |   | 11\ Inm                                   | 11                                    | Data 6-   | 22-79                         |  |
|   | Manysi / Walt   |   | 27                                    |   | <u>**</u>                     |  |
|   |   |   |                                       | Water charts of   | n back ( )                    |  |
| srm 66 Feb-79   |   |   |                                       |   | • 1                           |  |
|   | ni ing ng ning pangangala katal periode at nanatat ng nanata ng | ويعاجز والعرفي والمراجع والمراجع والمراجع | a mumum ang sang sang sa sa sa sa jan | e<br>19 mar - Nach Starten and Start and Start and Start and an and a start and a start and a start and a start and | an and when the second by the |  |
| ter and the second s   |   |   |                                       |   |                               |  |
|   |   |   |                                       | 이 가지 않<br>한 이상 바람이 다.   |                               |  |
|   |   |   |                                       |   |                               |  |
|   | 방법 영향이 전 것이 있는 것이 있다.   |   |                                       |   |                               |  |
|   |   | <ul> <li>plan, and assessed</li> </ul>    | and the state of the second           |   |                               |  |

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A CARLE STATE OF CALLER CONTRACTOR

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

| CASE  | NO. | 699   | 1   |
|-------|-----|-------|-----|
| Order | No. | R- io | 478 |

Qu

APPLICATION OF AMOCO PRODUCTION COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

# ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on <u>September 17</u> 19<sup>80</sup>, at Santa Fe, New Mexico, before Examiner Richard L. Stamets NOW, on this <u>day of September</u>, 19<u>80</u>, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted. IT IS THEREFORE ORDERED:

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That Case No. 6991 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.