30447593 WFX 11113101

778

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

Attn: Lori Wrotenbery
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Order No. R-9596

Dear Ms. Wrotenbery,

Amerada Hess Corporation respectfully request administrative amendment to Exhibit "A" of Division Order No. R-9596 on North Monument Grayburg San Andres Unit adding Well Nos. 1510 and 2104 to the order.

Enclosed is Form C-108 and supporting documents for your review.

If additional information is needed, please contact me at the above address or phone (915) 758-6707 at your earliest convenience.

Thank you for your consideration in this matter.

Sincerely,

Chad McGehee
Petroleum Engineer

Xc: Mr. Chris Williams - NMOCD, Hobbs Office

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**Oil Conservation Division**
**1220 South St. Francis Dr.**
**Santa Fe, New Mexico 87504**

FORM C-108
Revised 4-1-98

## APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ___X___ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? ___X___ Yes _____ No

II. OPERATOR: **Amerada Hess Corporation**

ADDRESS: **P. O. Box 840, Seminole, Texas 79360**

CONTACT PARTY: **Chad McGehee** PHONE: **915 758-6707**

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ___X___ Yes _____ No
If yes, give the Division order number authorizing the project: **R-9596**

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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: **Chad McGehee** TITLE: **Petroleum Engineer**

SIGNATURE: Chad McGehee DATE: **October 24, 2001**

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: **August 2, 1991, original C-108 submitted and subsequent amendments filed by Amerada Hess Corporation on North Monument Grayburg San Andres Unit.**

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

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

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

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

## INDEX

**C-108 ATTACHMENTS**



Note: Item Nos. VI, VII, & XI were submitted with original C-108 filed August 2, 1991

Item No. X - Logs & test data have previously been submitted.

Side 1

# INJECTION WELL DATA SHEET

OPERATOR: **Amerada Hess Corporation**

WELL NAME & NUMBER: **North Monument Grayburg San Andres Unit, Blk. 15, Well No. 10, API No. 30-025-31506**

WELL LOCATION: **1915' FSL & 1980' FEL** | **J** | **31** | **19S** | **37E**

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

***WELLBORE SCHEMATIC***

***WELL CONSTRUCTION DATA***

Surface Casing

Hole Size: **17-1/2"** Casing Size: **13-3/8" 48# @ 460'**

Cemented with: **500** sx. *or* _____ $ft^3$

Top of Cement: **Surface** Method Determined: **Calculated**

Intermediate Casing

Hole Size: **12-1/4"** Casing Size: **9-5/8" 36# @ 3574'**

Cemented with: **1500** sx. *or* _____ $ft^3$

Top of Cement: **Surface** Method Determined: **Calculated**

Production Casing

Hole Size: **8-3/4"** Casing Size: **7" 20 & 26# @ 4351'**

Cemented with: **275** sx. *or* _____ $ft^3$

Top of Cement: **2522'** Method Determined: **Calculated**

Total Depth: **4351'**

Injection Interval

**Perfs. fr. 3738' (Est.)** feet to **3886'**

(Perforated or Open Hole; indicate which)

Page 1

Side 2

**NMGSAU Blk. 15, Well No. 10**

## INJECTION WELL DATA SHEET

Tubing Size: **2-3/8"** Lining Material: **IPC or PE - Lined**

Type of Packer: **Plastic Coated AD-1**

Packer Setting Depth: **+/- 3688'**

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes **X** No

   If no, for what purpose was the well originally drilled? **Grayburg San Andres Producer**

   _____

2. Name of the Injection Formation: **Grayburg San Andres**

3. Name of Field or Pool (if applicable): **Eunice Monument Grayburg San Andres**

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. **No**

   _____

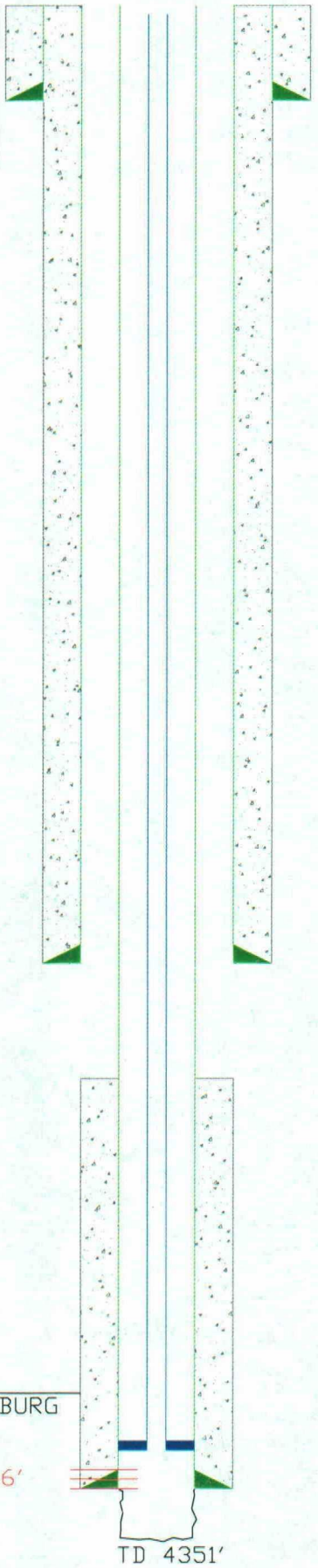
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

   **Higher Gas Zone: Eumont at +/- 3642'**

   **Lower Oil Zone: Paddock at +/- 5050'**

   **(Depths are from markers at Monument Abo Unit #1 Well, per Unit Agreement.)**

NMGSAU #1510
1915' FSL & 1980' FEL
Section 31, T-19S, R-37E
Lea County, NM
API # 30-025-31506



13 3/8" 48# CASING @ 460'
Cemented w/ 500 sx
TOC @ Surface (Calculated)
Hole Size 17 1/2"

9-5/8" 36# CASING @ 3574'
Cemented w/ 1500 sx
TOC @ Surface (Calculated)
Hole Size 12-1/4"

2-3/8" IPC or PE-lined tubing
7" AD-1 Plastic-coated packer
Set @ +/-3688'

3565'
TOP OF GRAYBURG

PERFS: 3754-3886'

7" 20 & 26# CASING @ 4351'
Cemented w/ 275 sx
TOC @ 2522' (Calculated)
Hole Size 8-3/4"

TD 4351'

Side 1

# INJECTION WELL DATA SHEET

OPERATOR: **Amerada Hess Corporation**

WELL NAME & NUMBER: **North Monument Grayburg San Andres Unit, Blk. 21, Well No. 4, API No. 30-025-05910**

WELL LOCATION: **660' FNL & 660' FWL** | **D** | **5** | **20S** | **37E**

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

***WELLBORE SCHEMATIC***

***WELL CONSTRUCTION DATA***

Surface Casing

Hole Size: **17-1/2"** Casing Size: **12-1/2" 40# @ 148'**

Cemented with: **150** sx. *or* _____ $ft^3$

Top of Cement: **Surface** Method Determined: **Circulated**

Intermediate Casing

Hole Size: **11"** Casing Size: **9-5/8" 36# @ 1155'**

Cemented with: **500** sx. *or* _____ $ft^3$

Top of Cement: **Surface** Method Determined: **Circulated**

Production Casing

Hole Size: **8-3/4"** Casing Size: **7" 24# @ 3783'**

Cemented with: **400** sx. *or* _____ $ft^3$

Top of Cement: **1122'** Method Determined: **Calculated**

Total Depth: **3898'**

Injection Interval

**Perfs. & Open Hole fr. 3720'(Est.)** feet to **3898'**

(Perforated or Open Hole; indicate which)

Side 2

**NMGSAU Blk. 21, Well No. 4**

## INJECTION WELL DATA SHEET

Tubing Size: **2-3/8"** Lining Material: **IPC or PE - Lined**

Type of Packer: **Plastic Coated AD-1**

Packer Setting Depth: **+/- 3670'**

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes **X** No

   If no, for what purpose was the well originally drilled? **Grayburg San Andres Producer**

2. Name of the Injection Formation: **Grayburg San Andres**

3. Name of Field or Pool (if applicable): **Eunice Monument Grayburg San Andres**

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. **No**

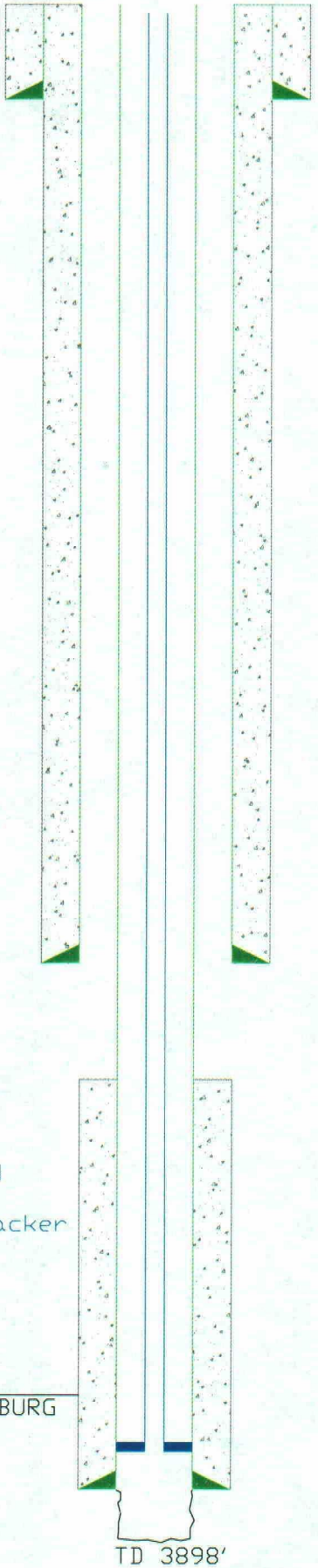
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   **Higher Gas Zone: Eumont at +/- 3642'**

   **Lower Oil Zone: Paddock at +/- 5050'**

   **(Depths are from markers at Monument Abo Unit #1 Well, per Unit Agreement.)**

NMGSAU #2104
660' FNL & 660' FWL
Section 5, T-20S, R-37E
Lea County, NM
API # 30-025-05910



12 1/2" 40# CASING @ 148'
Cemented w/ 150 sx
TOC @ Surface (Circulated)
Hole Size 17 1/2"

9-5/8" 36# CASING @ 1155'
Cemented w/ 500 sx
TOC @ Surface (Circulated)
Hole Size 11"

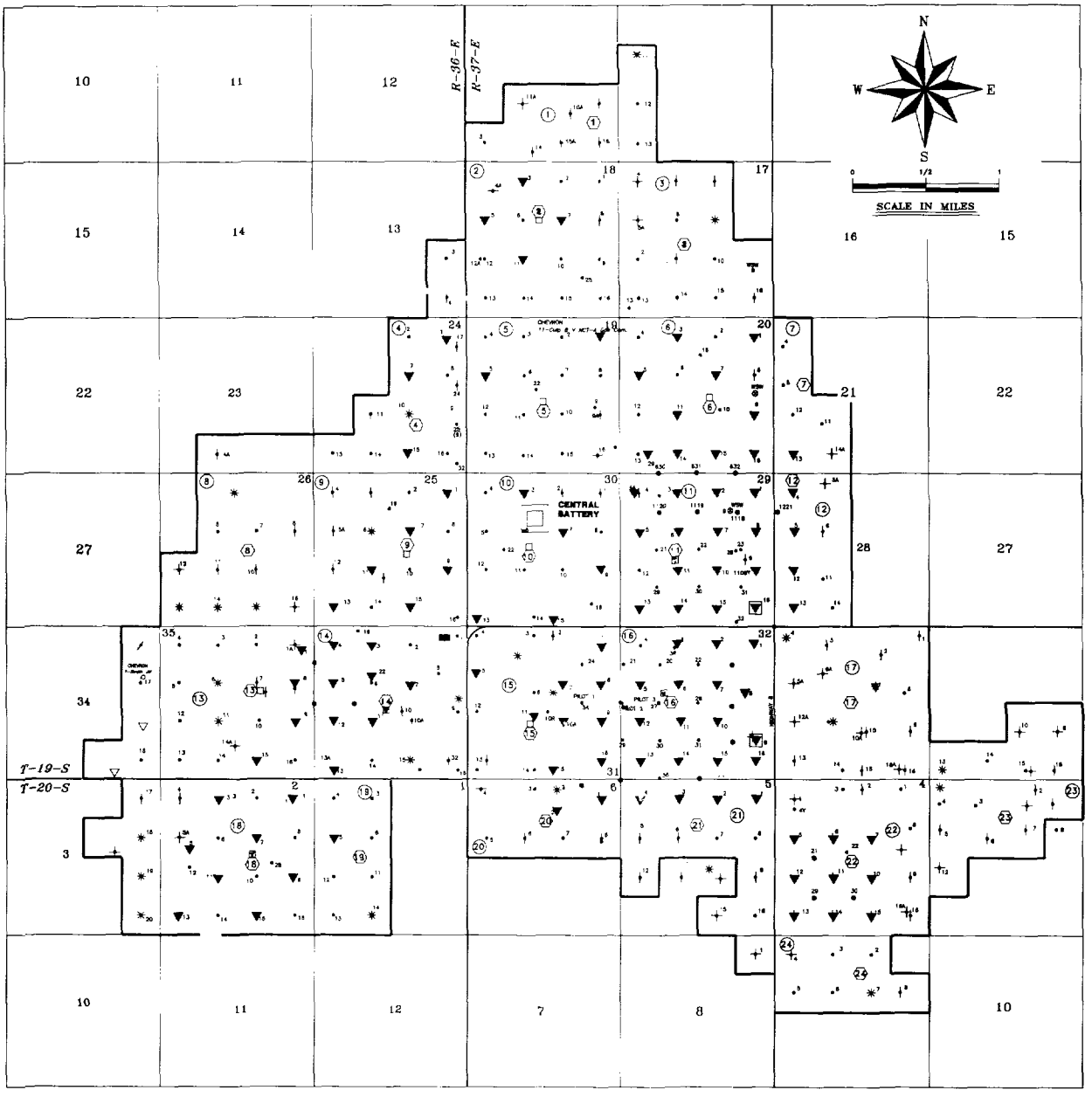
2-3/8" IPC or PE-lined
Tubing
AD-1 Plastic-coated Packer
Set @ +/-3670'

3500'
TOP OF GRAYBURG

7" 24# CASING @ 3783'
Cemented w/ 400 sx
TOC @ 1122' (Calculated)
Hole Size 8-3/8"

O.H. fr/ 3783'-3898'

TD 3898'




LEGEND

- WATER INJECTION WELL
- PRODUCING WELL
- GAS WELL
- TEMPORARILY ABANDONED
- PLUGGED & ABANDONED
- WATER SUPPLY WELL
- (11) TRACT NUMBER
- (XX) SATELLITE NUMBER
- UNIT BOUNDARY

| No. | Revision | By | Date |
|---|---|---|---|
| 1 | ORIGINAL DRAWING | SS | 3-31-1997 |
| 2 | GENERAL REVISIONS | CM | 2-22-1999 |

Drawn By: S. Stanfield
Date: 2-22-1999
Scale: NOTED
Engineer/ Originator: S. WRIGHT
AFE No.
Approved By:
Drawing File: NMQSAU.DWG
File Location: D:\MONUMENT\SYSTEMS

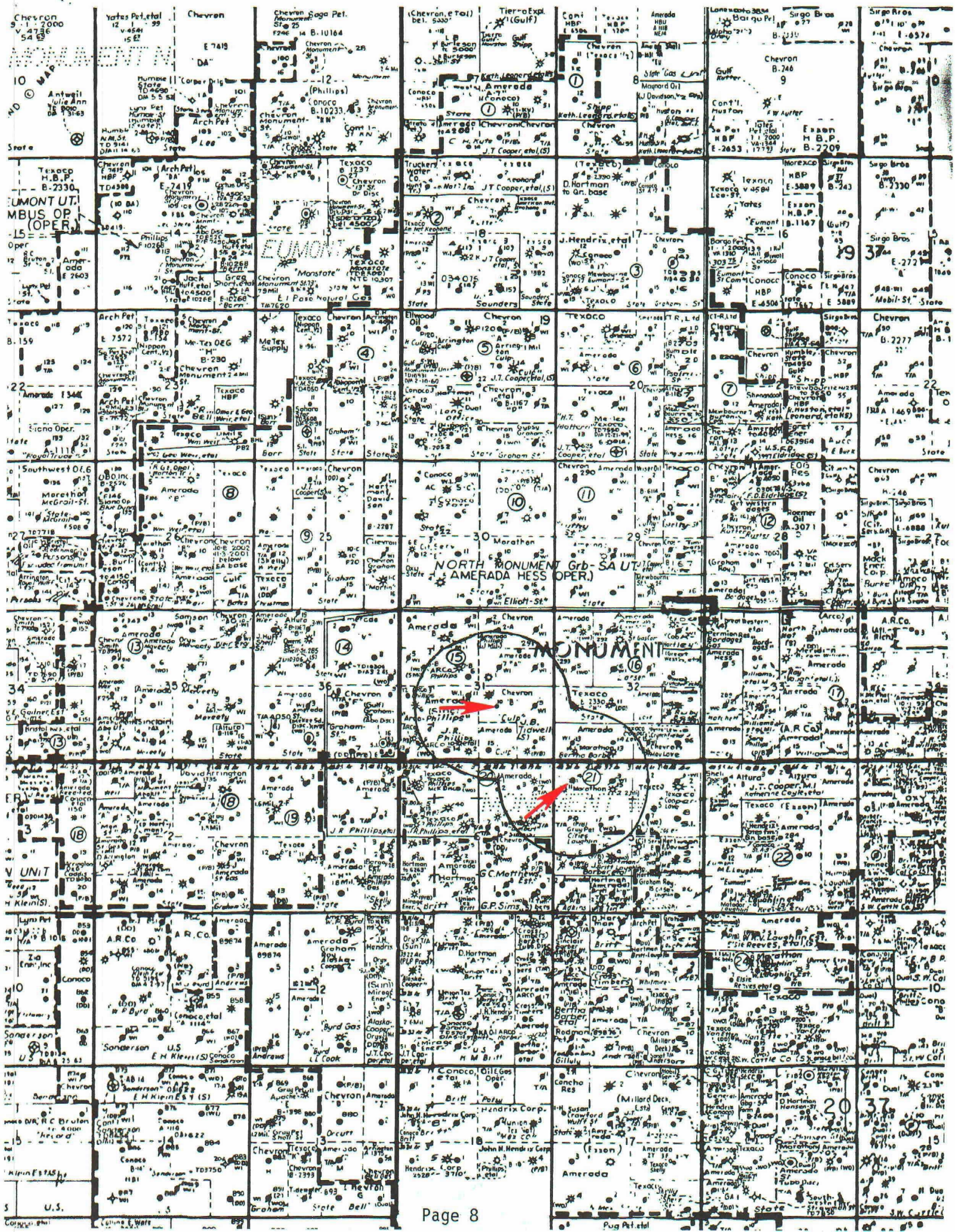
NMQSAU

HESS

**AMERADA HESS CORPORATION**
SEMINOLE DISTRICT

**NORTH MONUMENT**
**GRAYBURG SAN ANDRES UNIT**

**BASE MAP**


NORTH MONUMENT Grb-SA UT.
AMERADA HESS OPER.)
MONUMENT
EUMONT
Page 8

## VI. TABULATION OF WELLS PENETRATING PROPOSED INJECTION ZONE

**Wells not included in original C-108, within area of review**

| LEASE | WELL | OPERATOR | API | LOCATION | | | | TYPE | FIELD | DATE DRILLED | TD | COMPLETION INTERVAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UNIT | SEC | T | R | | | | | TOP | BOTTOM |
| PHILLIPS J R | 15 | TEXACO E & P INC | 3002535119 | C | 6 | 20 | 37 | OIL | MONUMENT | 8/25/2000 | 7750 | 7058 | 7750 |
| NMGSAU BLK 15 | 10 | AMERADA HESS CORP | 3002531506 | J | 31 | 19 | 37 | OIL | EUNICE MONUMENT | 8/20/1992 | 4352 | 3779 | 3802 |
| BARBER BERTHA | 6 | MARATHON OIL COMPANY | 3002505911 | L | 5 | 20 | 37 | GAS | EUMONT | 11/1/1983 | 3890 | 3133 | 3349 |
| BARBER BERTHA | 8 | MARATHON OIL COMPANY | 3002505913 | E | 5 | 20 | 37 | GAS | EUMONT | 6/30/1998 | 3900 | 2430 | 2734 |
| BARBER BERTHA | 13 | MARATHON OIL COMPANY | 3002532384 | N | 32 | 19 | 37 | GAS | EUMONT | 2/3/1994 | 3727 | 3390 | 3494 |
| BARBER BERTHA | 14 | MARATHON OIL COMPANY | 3002532385 | M | 32 | 19 | 37 | GAS | EUMONT | 8/12/1994 | 3650 | 2980 | 3471 |
| BARBER BERTHA | 15 | MARATHON OIL COMPANY | 3002532532 | C | 5 | 20 | 37 | GAS | EUMONT | 11/11/1994 | 3760 | 3207 | 3436 |
| BARBER BERTHA | 17 | MARATHON OIL COMPANY | 3002534204 | F | 5 | 20 | 37 | GAS | EUMONT | 12/28/1997 | 7800 | 6443 | 6453 |

## VI. TABULATION OF WELLS PENETRATING PROPOSED INJECTION ZONE

**Wells not included in original C-108, within area of review**

**Casing, Cement, and Estimated Tops**

| LEASE | WELL | API | SURFACE CASING | | | | | INTERMEDIATE CASING | | | | | PRODUCTION CASING | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE | HOLE SIZE | DEPTH | CEMENT | TOC | SIZE | HOLE SIZE | DEPTH | CEMENT | TOC | SIZE | HOLE SIZE | DEPTH | CEMENT | TOC |
| PHILLIPS J R | 15 | 3002535119 | 8 5/8 | 11 | 1132' | 800 | SURF | | | | | | 5 1/2 | 7 7/8 | 7058' | 1585 | SURF |
| NMGSAU BLK 15 | 10 | 3002531506 | 13 3/8 | 17 1/2 | 460' | 500 | SURF | 9 5/8 | 12 1/4 | 3574' | 805 | 1004' | 7 | 8 3/4 | 4351' | 275 | 2521' |
| BARBER BERTHA | 6 | 3002505911 | 9 5/8 | 12 1/4 | 1105' | 500 | SURF | | | | | | 7 | 8 3/4 | 3817' | 400 | 1156' |
| BARBER BERTHA | 8 | 3002505913 | 9 5/8 | 12 1/4 | 1125' | 500 | SURF | | | | | | 7 | 8 3/4 | 3800' | 400 | 1139' |
| BARBER BERTHA | 13 | 3002532384 | 8 5/8 | 11 | 1218' | 580 | SURF | | | | | | 5 1/2 | 7 7/8 | 3727' | 925 | SURF |
| BARBER BERTHA | 14 | 3002532385 | 7 | 8 3/4 | 1208' | 265 | SURF | | | | | | 4 1/2 | 6 1/8 | 3660' | 555 | SURF |
| BARBER BERTHA | 15 | 3002535532 | 7 | 8 3/4 | 1219' | 325 | SURF | | | | | | 4 1/2 | 6 1/8 | 3755' | 520 | SURF |
| BARBER BERTHA | 17 | 3002534204 | 11 3/4 | 15 | 500' | 271 | SURF | 8 5/8 | 11 | 3302' | 905 | SURF | 5 1/2 | 7 7/8 | 7792' | 910 | 2539' |

* Assumed typical hole size (unless known) because not available in PI/Dwights.

Example calculation of TOC for NMGSAU #1510 Production Casing:

Cement yield is 1.0 cf/sack (per Paul Kautz, Hobbs NMOCD)
Volume of cement = 275 sx * 1.0 cf/sx = 275 cf of cement
Annular volume between 8-3/4" hole and 7" casing = 0.1503 cf/linear ft (per Halliburton Cementing Tables)
Annular height of cement = Volume of cement / Annular Volume = 275 cf / 0.1503 cf/linear ft = 1830'
ETOC = Depth of casing - Annular height of cement = 4351' - 1830' = 2521'

## C-108 ATTACHMENT

### A. Section VII - Data on Proposed Operation

1. Proposed Average & Maximum Daily Rate and Volume of Fluids to be Injected:

   Average Daily Rate: 400 B.W./D.
   Maximum Daily Rate: 2500 B.W./D.

2. Open or Close System:

   Injection system is a closed system.

3. Proposed Average & Maximum* Injection Pressures:

   Average injection pressure: 710 PSI

| WELL NAME | TOP PERF | MAX P |
|---|---|---|
| 1510 | 3738' | 748 |
| 2104 | 3720' | 744 |

*Until a fracture gradient is determined, maximum injection pressure will be based on a .2 PSI/foot gradient to depth of top of completion.

4. Sources of Appropriate Analysis of Injection Fluid:

   The source of injection water will be from San Andres water supply wells and produced water from existing North Monument Grayburg San Andres Unit producers. The San Andres formation is compatible with the produced water from the unit wells.

### B. Section IX. Proposed Stimulation Program:

1. NMGSAU Well Nos. 1510 & 2104.

   Acidize each well w/2000 - 4000 gal. 15% NEFE acid.

**C-108 ATTACHMENT**

**A. Sections VIII & XIV – Proof of Notice.**

1. Surface Owners – Application mailed by Certified Mail to following:

   - Jimmie B. Cooper
     P. O. Box 36
     Monument, New Mexico 88265

   - J. Dell Barber Estate
     Barbara Darnall
     726 Davis Drive
     Abilene, Texas 79605

2. Leasehold Operators within ½ mile of proposed injection wells – application mailed by Certified Mail to following:

   - ARCO Permian
     200 Westlake Park Blvd. Rm. 266
     Houston, Texas 77079

   - Chevron U.S.A. Inc.
     P. O. Box 1150
     Midland, Texas 79702

   - Marathon Oil Company
     P. O. Box 552
     Midland, Texas 79702

   - Texaco Exploration & Production Inc.
     P. O. Box 3109
     Midland, Texas 79702

3. Publication – (Attached)

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

October 7 2001

and ending with the issue dated

October 7 2001

Kathi Bearden

Publisher

Sworn and subscribed to before me this 8th day of

October 2001

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

**LEGAL NOTICE**
**October 7, 2001**

Amerada Hess Corporation, operator of record for the North Monument Grayburg San Andres Unit, (NMGSAU), hereby notifies of their desire to inject water into the following two wells: NMGSAU Well No. 1510 located in Unit J, Sec. 31, T19S, R37E, and NMSGAU Well No. 2104 located in Unit D, Sec. 5, T20S, R37E, Lea County, N.M. The NMSGAU "Authorization to Inject" is covered under State of New Mexico, Energy, Minerals and Natural Resources Department, Oil Conservation Division Case No. 10252, Division Order No. R-9596. Amerada Hess Corporation hereby gives notice that application has been made for administrative regulatory amendment of Exhibit "A" of said division order to include the aforementioned wells to inject water into Grayburg San Andres formation, Eunice Monument Grayburg San Andres pool through the gross perforated and/or open hole interval from approximately 3700 feet to 4000 feet with an initial maximum injection pressure of 0.2 PSI/FT. to top of completion. Contact Mr. Chad McGehee, Amerada Hess Corporation, P. O. Box 840, Seminole, Texas 79360, Phone 915-758-6707 concerning questions regarding application. Objections or requests for hearing concerning this application should be filed with the State of New Mexico, Energy, Minerals and Natural Resources Department, Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87504 within 15 days of this publication.
#18468

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

01100986000 02550774

AMERADA HESS CORPORATION
PO BOX 840
SEMINOLE, TX 79360

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

J. Dell Barber Estate
Barbara Darnall
726 Davis Drive
Abilene, Texas 79605

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Lea County, New Mexico

Dear Sir,

Enclosed, for your information is a copy of Form C-108 and supporting documents filed with State of New Mexico Oil Conservation Division requesting administrative approval to add North Monument Grayburg San Andres Unit Well Nos. 1510 and 2104 as water injection wells to unit.

If additional information is needed, please let us know at your earliest convenience at above address or phone (915) 758-6707.

Sincerely,

Chad McGehee
Petroleum Engineer

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

Jimmie B. Cooper
P. O. Box 36
Monument, New Mexico 88265

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Lea County, New Mexico

Dear Sir,

Enclosed, for your information is a copy of Form C-108 and supporting documents filed with State of New Mexico Oil Conservation Division requesting administrative approval to add North Monument Grayburg San Andres Unit Well Nos. 1510 and 2104 as water injection wells to unit.

If additional information is needed, please let us know at your earliest convenience at above address or phone (915) 758-6707.

Sincerely,

Chad McGehee
Petroleum Engineer

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

ARCO Permian
200 Westlake Park Blvd. Rm. 266
Houston, Texas 77079

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Lea County, New Mexico

Dear Sir,

Enclosed, for your information is a copy of Form C-108 and supporting documents filed with State of New Mexico Oil Conservation Division requesting administrative approval to add North Monument Grayburg San Andres Unit Well Nos. 1510 and 2104 as water injection wells to unit.

If additional information is needed, please let us know at your earliest convenience at above address or phone (915) 758-6707.

Sincerely,

Chad McGehee
Petroleum Engineer

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

Chevron U.S.A. Inc.
P. O. Box 1150
Midland, Texas 79702

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Lea County, New Mexico

Dear Sir,

Enclosed, for your information is a copy of Form C-108 and supporting documents filed with State of New Mexico Oil Conservation Division requesting administrative approval to add North Monument Grayburg San Andres Unit Well Nos. 1510 and 2104 as water injection wells to unit.

If additional information is needed, please let us know at your earliest convenience at above address or phone (915) 758-6707.

Sincerely,

Chad McGehee
Petroleum Engineer

# AMERADA HESS CORPORATION

P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

October 24, 2001

Marathon Oil Company
P. O. Box 552
Midland, Texas 79702

Re: Application for Amended Injection Permit
North Monument Grayburg San Andres Unit
Lea County, New Mexico

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SEMINOLE, TEXAS 79360
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October 24, 2001

Texaco Exploration & Production Inc.
P. O. Box 3109
Midland, Texas 79702

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City, State, ZIP+4: Midland, Tx. 79702

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Postmark Here: USPS OCT 24 2001 SEMINOLE TX 79360

Sent To: Marathon Oil Company
Street, Apt. No.; or PO Box No.: P.O. Box 552
City, State, ZIP+4: Midland, Tx. 79702

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