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AMERADA HESS CORPORATION

P. O. BOX 840 SEMINOLE, TEXAS 79360 915-758-67(10)

September 22, 2000

Attn: Lori Wrotenbery State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472 SEP 2 5 2000

North Monument Grayburg San Andres Unit Order No. R-9596

Application for Amended Injection Permit

Dear Ms. Wrotenbery,

Re:

Amerada Hess Corporation respectfully request administrative amendment to Exhibit "A" of Division Order No. R-9596 on North Monument Grayburg San Andres Unit adding NMGSAU Well No.'s 914, 1402, and 1419 to 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 is this matter.

Sincerely, Chamilton

Chad McGehee Petroleum Engineer

Xc: Mr. Chris Williams - NMOCD, Hobbs Office

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

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
JII.	OPERATOR:Amerada Hess Corporation
	ADDRESS: P. O. Box 840, Seminole, Texas 79360
	CONTACT PARTY: Chad McGehee PHONE: 915 758-6707
Úш.	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.
U VII.	Attach data on the proposed operation, including:
, ,	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
√ *VIII.	Attach appropriate 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: Chelphill DATE: September 22, 2000
*	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: <u>August 2, 1991, original C-108 submitted by Amerada Hess</u>

Corporation on North Monument Grayburg San Andres Unit.

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.

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.

<u>INDEX</u>

C-108 ATTACHMENTS

Section III – Well Data , Wellbore Schematic	PAGE
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Section VI – Tabulation of Wells Penetrating Proposed Injection Zone (Wells not drld. during filing of original C-108)	12
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Publication	15

Note: Item No's. VI, VIII, & XI were submitted with original C-108 filed August 2, 1991

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

OPERATOR: WELL NAME & NUM WELL LOCATION: <u>WELLL</u>	OPERATOR: <u>Amerada Hess Corporation</u> WELL NAME & NUMBER: <u>North Monument Grayburg San Andres Unit Blk. 9, Well No. 14</u> WELL LOCATION: <u>660' FSL & 1980' FWL</u> <u>N</u> FOOTAGE LOCATION UNIT LETTER S <u>WELLBORE SCHEMATIC</u>	San Andres Unit Blk. 9, Well N UNIT LETTER	EC	IPI No. 30-025-04053State Lse. B-1431-32519S36ETIONTOWNSHIPRANGEWELL CONSTRUCTION DATA
WELL	BORE SCHEMATIC		WELL CONSTRU	<u>ISTRUCTION DATA</u> Casing
		Hole Size:	17-1/2"	Casing Size: 12-1/2" 40# @ 208'
		Cemented with:	150 sx.	or
		Top of Cement:	Surface	Method Determined: Circulated
			Intermediate Casing	te Casing
		Hole Size:	11"	Casing Size: 8-5/8", 28# @ 2484'
		Cemented with:	500 sx.	or
		Top of Cement:	517'	Method Determined: Calculated
			Production Casing	n Casing
		Hole Size:	7-7/8"	Casing Size: (1) 7" 23# fr. 0'-452' (2) 6-5/8" 20# fr. 452'-3808'
		Cemented with:	100 sx.	or
		Top of Cement: _	2797'	Method Determined: Calculated
		Total Depth:	3939'	
			Injection Interval	Interval
			Open Hole fr. 3808 feet (Perforated or Op	* Open Hole fr. 3808 feet To 3939? (Perforated or Open Hole; indicate which) *DECISION MAY RE MADE TO PERF AS HICH AS 3780?
		*DECIS	oen Hole fr. 3808 feet (Perforated or Op ION MAY BE MADE	To 3939' Den Hole; indicate w

Side 1

INJECTION WELL DATA SHEET

PAGE 1

INJECTION WELL DATA SHEET

Tubing Size:	2-3/8", Linin	Lining Material:	PE or Fiberglass
Type of Packer:	6-5/8" Arrowset 1-XS		

Packer Setting Depth: 3758'

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

Additional Data

÷ Is this a new well drilled for injection? Yes X No

If no, for what purpose was the well originally drilled? <u>Grayburg San Andres Producer</u>

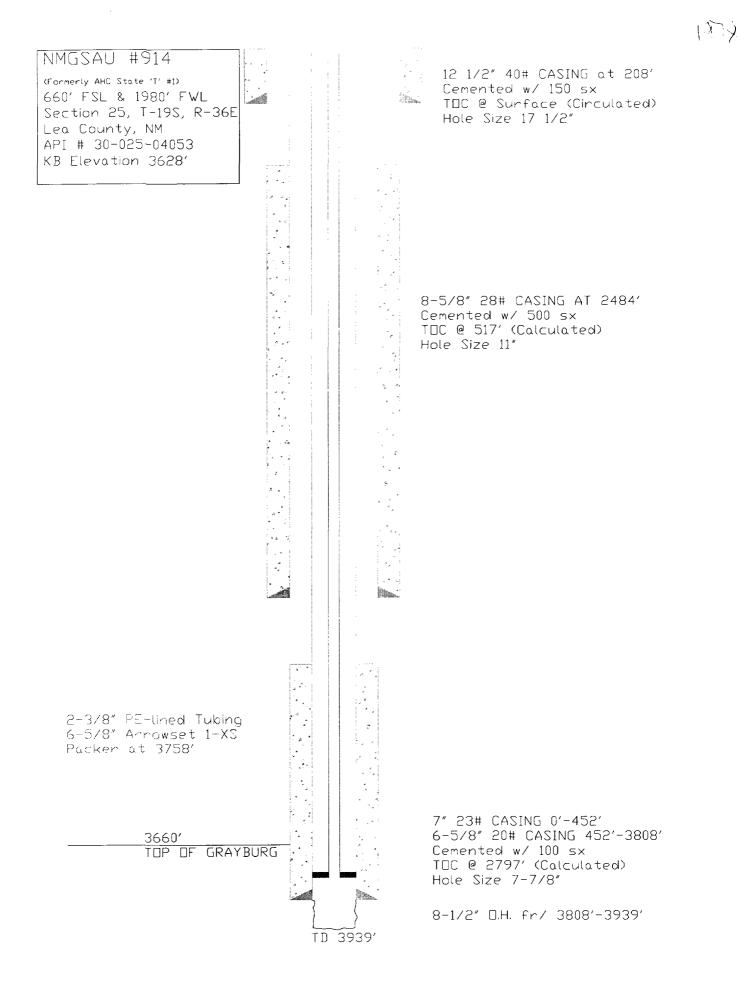
- 2. Name of the Injection Formation: Grayburg San Andres
- ω Name of Field or Pool (if applicable): <u>Eunice Monument Grayburg San Andres</u>
- 4 intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>No</u> Has the well ever been perforated in any other zone(s)? List all such perforated

(452' of 6-5/8" csg. was replaced w/7" 23# in 1992 – Passed integrity test to 515#.)

 $\dot{\boldsymbol{\omega}}$ 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 +/- 3660'

Lower Oil Zone: Paddock at +/- 4900'



															WELLBORE SCHEMATIC	WELL LOCATION: <u>660' FNL & 1980' FEL</u> FOOTAGE LOCATION	OPERATOR: <u>Amerada Hess Corporation</u> WELL NAME & NUMBER: <u>North Monument Grayburg San Andres Unit Blk. 14, Well No. 2</u>
(]	5-7/8", Open		Total Depth: 3930'	Top of Cement:	Cemented with:	Hole Size:		Top of Cement:	Cemented with:	Hole Size:11"		Top of Cement:	Cemented with:	Hole Size: 17		B UNIT LETTER	San Andres Unit Blk. 14, Well No
(Perforated or Open Hole; indicate which)	Open Hole fr. 3798 feet	Injection Interval	PBD @ 3890'	2920'	100 sx.	7-7/8"	Production Casing	454'	500 sx.	ľз	Intermediate Casing	Surface	200 sx.	<u>17-1/2"</u>	<u>WELL CONSTRU</u> Surface Casing	36 SECTION	. 2 API No. 30-025-12466
le; indicate which)	To 3930' (PBD @ 3890')	<u>iterval</u>		Method Determined: CBL	or	Casing Size: 6-5/8", 20# @ 3798'	Casing	Method Determined: Calculated	or	Casing Size: 8-5/8" 32# @ 2421'	Casing	Method Determined: Calculated	or	Casing Size: 12-1/2", 40# @ 201"	<u>WELL CONSTRUCTION DATA</u> Surface Casing	19S36ETOWNSHIPRANGE	95-12466 State Lse. B-1626-1

PAGE 4

INJECTION WELL DATA SHEET

Side 1

INJECTION WELL DATA SHEET

Tubing Size:	
2-3/8"	
Lining Material:	
PE of Fiberglass	

Type of Packer: 6-5/8" Arrowset 1-XS

Packer Setting Depth: 3748'

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

Additional Data

1. Is this a new well drilled for injection?

Yes X

° Z

If no, for what purpose was the well originally drilled? <u>Grayburg San Andres Producer</u>

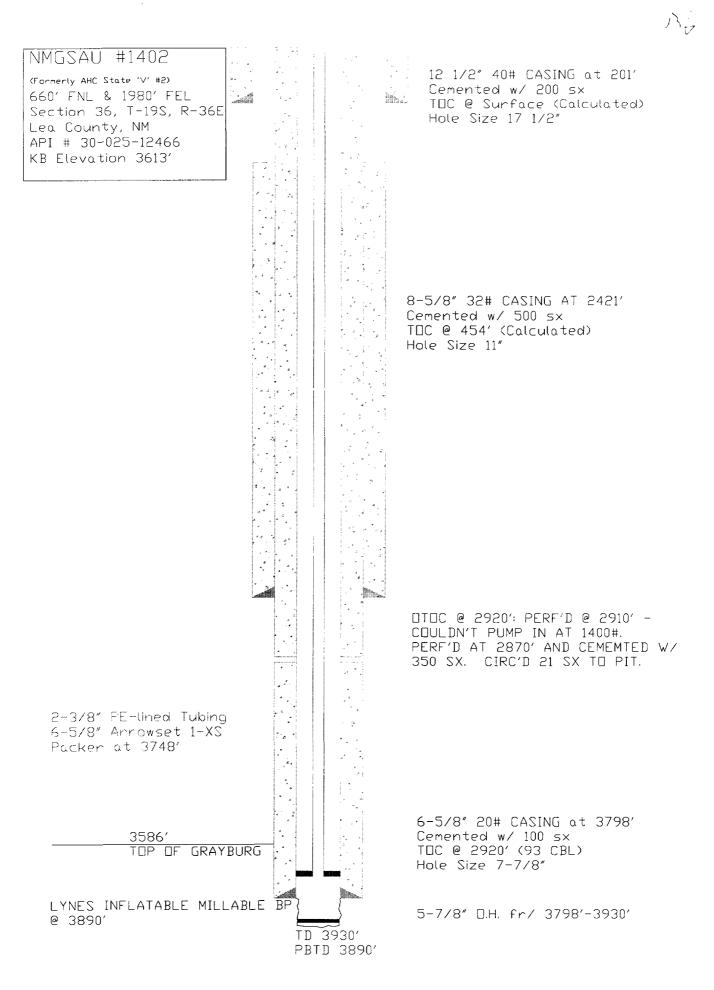
- 2. Name of the Injection Formation: Grayburg San Andres
- $\dot{\omega}$ Name of Field or Pool (if applicable):_ **Eunice Monument Grayburg San Andres**
- 4 intervals and give plugging detail, i.e. sacks of cement or plug(s) used. __ Has the well ever been perforated in any other zone(s)? List all such perforated Yes

Shot squeeze holes in 6-5/8", csg. at 2910' & 2870' & circ. cement to surface using 350 sks.

Ś 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 +/- 3586'

Lower Oil Zone: Paddock at +/- 4900'



PAGE 6

WELL LOCATION: WELL NAME & NUMBER: North Monument Grayburg San Andres Unit Blk. 14, Well No. 19 API No. 30-025-31587 State Lse. B-1167-48 **OPERATOR:** WELLBORE SCHEMATIC 80.5' FNL & 1505' FWL FOOTAGE LOCATION Amerada Hess Corporation UNIT LETTER \cap Cemented with: Cemented with: Hole Size: Total Depth: 5150', PBD @ 3950' Top of Cement: _ Cemented with: Hole Size: Top of Cement: Hole Size: Top of Cement: 12-1/4" 17-1/2" Surface 8-3/4" Perfs. fr. 3747 feet Surface 902 Total 1550' SECTION <u>915</u> 925 36 WELL CONSTRUCTION DATA Intermediate Casing Production Casing Injection Interval Surface Casing SX. SX. SX. or. or to 3943 feet or TOWNSHIP Method Determined: CBL Casing Size: 9-5/8", 36# @ 3641' Method Determined: Casing Size: 13-3/8", 48# @ 1185' Method Determined: Casing Size: 7" 26# @ 5148' 19S RANGE Circulated Circulated Ē. Ŧ. ft

PAGE 7

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Side 1

Side 2

INJECTION WELL DATA SHEET

Packer Setting	Type of Packer:	Tubing Size: 2-3/8"
Packer Setting Depth: <u>3697</u> ?	Type of Packer: <u>7" Arrowset 1-XS</u>	2-3/8"
		Lining Material:
		Lining Material: PE or Fiberglass

Additional Data

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

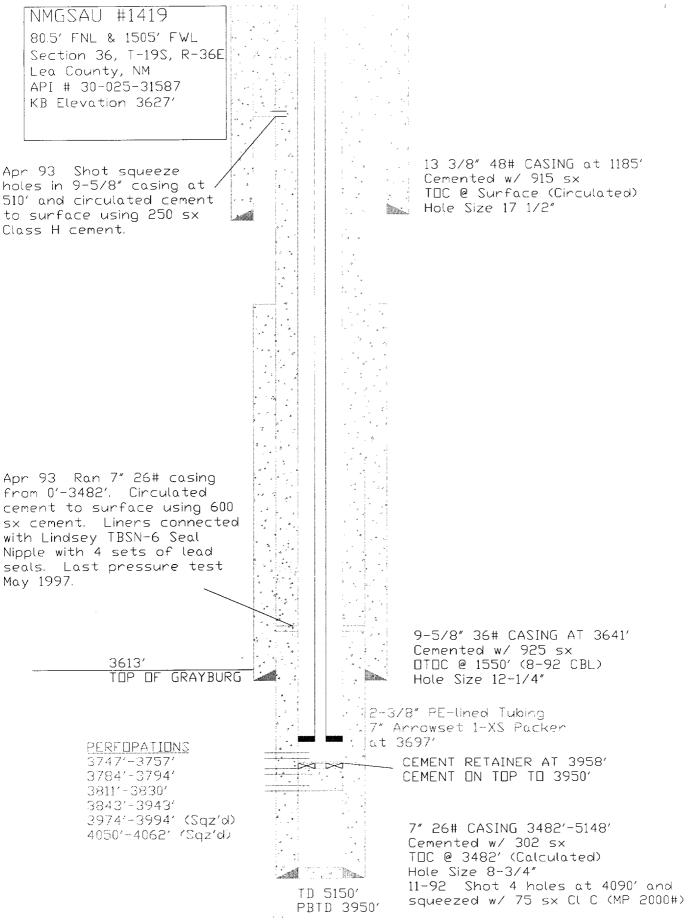
._____ Is this a new well drilled for injection? Yes_ × No

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

- 2. Name of the Injection Formation: Grayburg San Andres
- <u>ω</u> Name of Field or Pool (if applicable): _____ **Eunice Monument Grayburg San Andres**
- 4 intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Has the well ever been perforated in any other zone(s)? List all such perforated No
- . У 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 +/- 3613'

Lower Oil Zone: Paddock at +/- 4900'



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VI. TABULATION OF WELLS PENETRATING PROPOSED INJECTION ZONE Wells not included in original C-108, within area of review

					LOCATION				DATE		COMPLETION INTERVA	N INTERVAL
WELL NAME / NUMBER	OPERATOR	API	UNIT	UNIT SEC	1-1	תו	TYPE	FIELD	DRILLED	딩	TOP	BOTTOM
NMGSAU #910	AMERADA HESS CORPORATION 3002532391		٢	25	25 19S 36E	36E	OIL	OIL EUNICE MONUMENT	Mar-94 4142	4142	3830	3995
NMGSAU #285 (#1422)	NMGSAU #285 (#1422) AMERADA HESS CORPORATION 3002512481	3002512481	Т	36	S61	36E		EUNICE MONUMENT	Mar-59 3930	3930	3749	3930
SHELL B STATE 1	HUFF JACK	3002531593	0	36	193	3 36E		OIL EUMONT	May-92	3730	3380	3559
SHELL-STATE 'B' 2	HUFF JACK	3002533838 D	σ	36	36 19S 36E GAS EUMO	36E	GAS	EUMONT	May-97	3800	3417	3649

west side 2000 conversions.xts

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: 750 B.W./D. Maximum Daily Rate: 2500 B.W./D.

The injection volume is expected to reach 196,000,000 barrels of water at 100% Fillup. This volume may reach 620,000,000 barrels of water by abandonment.

2. Open or Closed System:

Injection system is a closed system.

3. Proposed Average & Maximum* Injection Pressures:

Average injection pressure: 625 PSI Maximum injection pressure: 720 PSI

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

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 No. 914

Acidize w/2000 gal. 15% NEFE acid.

2. NMGSAU Well No. 1402

Acidize w/2000 gal. 15% NEFE acid.

3. NMGSAU Well No. 1419

Acidize w/2000 gal. 15% NEFE acid.

AMERADA HESS CORPORATION

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

September 22, 2000

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 No.'s 914, 1402, and 1419 as water injection wells to unit.

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

Sincerely,

Chad McGehee Petroleum Engineer

C-108 ATTACHMENT

A. Sections VIII & XIV – Proof of Notice.

- 1. Surface Owners Application mailed by Certified Mail to following:
 - New Mexico State Land Office Commissioner of Public Lands Ray Powell, M.S., D.V.M. 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, New Mexico 87504-1148
 - Byrd Ranch
 P. O. Box 32
 Monument, New Mexico 88265
 - Jimmie T. Cooper
 P. O. Box 55
 Monument, New Mexico 88265
 - DLD Resources
 P. O. Drawer A
 Monument, New Mexico 88265
- 2. Leasehold Operators within ¹/₂ mile of proposed injection wells application mailed by Certified Mail to following:
 - Altura Energy LTD. P. O. Box 4294 Houston, Texas 77210
 - Chevron U.S.A., Inc. P. O. Box 1150 Midland, Texas 79702
 - Jack Huff
 P. O. Box 50190
 Midland, Texas 79710-0190
 - Kerr McGee Corporation
 P. O. Box 1050
 Midland, Texas 79702
 - Oryx Energy Company
 P. O. Box 2880
 Dallas, Texas 75221-2880
 - Owens Petroleum, Inc. P. O. Box 2911 Midland, Texas 79702
 - OXY U.S.A., Inc. P. O. Box 50250 Midland, Texas 79710
 - 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 _____

weeks.

1

Beginning with the issue dated

September 17 . 2000 and ending with the issue dated

September 17

_ 2000

2000

Publisher Sworn and subscribed to before

18th me this _ day of

September

otary Public.

My Commission expires October 18, 2000 (Seal)

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.

🗄 🦾 LEGAL NOTICE 🛒 🖻 September 17, 2000 the second 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 three wells: NMGSAU Well No. 914, located in Unit N, Sec. 25, T19S, R36E, NMGSAU Well No. 1402, located in Unit B, Sec. 36, T19S, R36E, and NMGSAU Well No. 1419, located in Unit C, Sec. 36, T19S, R36E, Lea County, N.M. The NMGASAU ALthorization 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 3747 feet to 3943 feet with a maximum injection pressure of 720 PSI. 👃

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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, 2040 South Pacheco Street, Santa Fe, New Mexico 87505-5472 within 15 days of #17623

01100986000 01543634 AMERADA HESS CORPORATION **PO BOX 840** SEMINOLE, TX 79360

Z 437 801 888

US Postal Service Receipt for Certified Mail No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

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Post Office, State, & ZIP Cod	N.M. 88265
Postage	\$.99
Certified Fee	1.40
Special Delivery Fee	
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US Postal Service Receipt for Certified Mail

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

3/00 12

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION	
P. O. BOX 2088	
SANTA FE, NEW MEXICO 87501	
RE: Proposed: MC	
DHC	
NSL	
NSP	
SWD	
WFX	
РМХ	#14.N-25-195-36e
Gentlemen:	$\begin{array}{rcl} # 2 - B - 3b \cdot 19 - 3be \\ # 19 - C - 3b - 195 - 3be \\ \end{array}$
	HIR C- 36-195-360
I have examined the application for	
Amerada Hess Corp M Operator	1 Manupart GR/ALL 1
Operator Lease	& Well No Unit S-T-R
and my recommendations are as foll	lows:
- -	
OR	
Yours very truly,	
Chris Welliams	
Chris Williams	
Supervisor, District 1	

/ed