

5/17/96
WFX-684

AMERADA HESS CORPORATION

MAY 2 1996

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

April 9, 1996

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

Attn: Mr. David Catanach

Re: Application for Injection Permit
NMGSAU #1013 & #1015

Dear Mr. Catanach:

Amerada Hess respectfully requests administrative approval to add 2 injection wells in the North Monument Grayburg San Andres Unit to the original 108 injection wells approved in Division Order R-9596. The NMGSAU #1013 and #1015 are centrally located in the original "Area of Review" as indicated on the attached unit map.

In support of this application, please find a unit map showing well locations and Area of Review, wellbore diagrams for the proposed injectors, and form C-108. If further information is required please contact David Ricks at the above address.

Sincerely,



David Ricks
Professional Petroleum Engineer

Attachments

XC: NMOCD District Office, Hobbs
Rob Williams
Jeff Hermann
File

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: AMARATA Hess Well: NMGSAL Nos. 1013 + 1015 ⁶⁷⁰⁰

Contact: DAVID RICKS Title: P.E. Phone: 915 758 7830

DATE IN 4.2 RELEASE DATE 5.17.96 DATE OUT 6.3.96

Proposed Injection Application is for: **WATERFLOOD** Expansion Initial

Original Order: R- 9596 Secondary Recovery Pressure Maintenance

SENSITIVE AREAS **SALT WATER DISPOSAL** Commercial Well

WIPP Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

20 Total # of AOR 0 # of Plugged Wells

YES Tabulation Complete NA Schematics of P & A's

YES Cement Tops Adequate AOR Repair Required

INJECTION FORMATION

Injection Formation(s) SSA Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION + MAKEUP

PROOF of NOTICE

Copy of Legal Notice Information Printed Correctly

Correct Operators Copies of Certified Mail Receipts

Objection Received Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____
2nd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: AMERADA HESS CORPORATION
Address: P.O. BOX 840, SEMINOLE, TEXAS 79360
Contact party: DAVID RICKS Phone: (915) 758-6700
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project 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 geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: DAVID RICKS Title PROFESSIONAL PETROLEUM ENGINEER

Signature: _____ Date: _____

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. ORIGINAL C-108 SUBMITTED 08/02/91 FOR AMERADA HESS,

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

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

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 footacre location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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

CURRENT COMPLETION

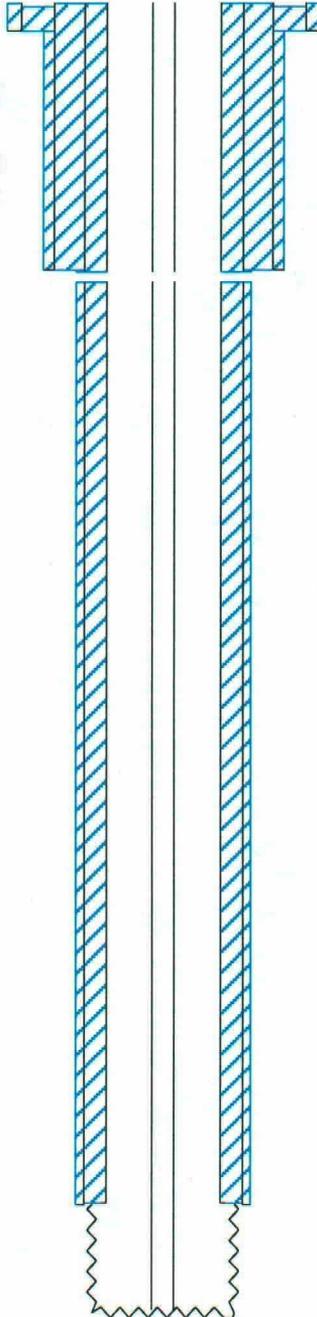
3002505752
Updated 6/29/93

NMGS AU # 1013 SEC 30 19S 37E KB 3634(DF) TD 3940
LOCATED 330 FROM SOUTH LINE AND 330 FROM WEST LINE
OPERATOR "CITIES SERVICE CO."
WELL NAME & NO. "STATE E NO. 4"
ORIGINAL COMP. DATE 07/11/36

0.0 - 252.0' CEMENT TOC BY CALC. (225 SX CEM)
0.0 - 252.0' 12-1/2" OD 50.00#/ft CSG

30.0 - 2480.0' CEMENT TOC BY CALC. (700 SX)

0.0 - 3790.0' CEMENT Circ'd w/ 5" csg
0.0 - 3787.0' CEMENT Circ'd w/ 700 sx
0.0 - 2480.0' 9-5/8" OD 40.00#/ft CSG



0.0 - 3936.0' 2-7/8" OD TBG 6.5# J-55 8 RD EUE

0.0 - 3790.0' 7" OD 24.00#/ft CSG
0.0 - 3787.0' 5" OD 15.00#/ft CSG

3790.0 - 3940.0' 6-1/4" OD HOLE

KB ELEV: 3624'
TD: 3940'

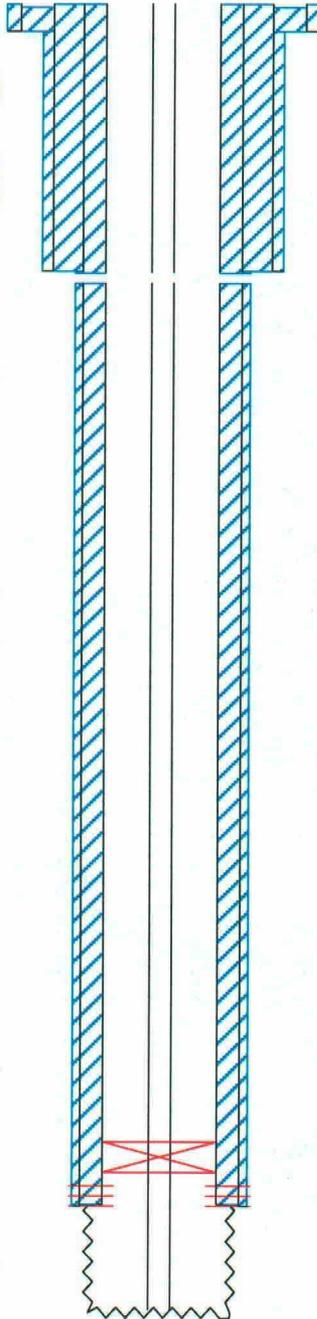
Proposed Injector
Updated 4/3/96

NMCSAU # 1013 SEC 30 19S 37E KB 3634(DF) TD 3940
 LOCATED 330 FROM SOUTH LINE AND 330 FROM WEST LINE
 OPERATOR "CITIES SERVICE CO."
 WELL NAME & NO. "STATE E NO. 4"
 ORIGINAL COMP. DATE 07/11/36

0.0 - 252.0' CEMENT TOC BY CALC. (225 SX CEM)
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 0.0 - 2480.0' 9-5/8" OD 40.00#/ft CSG



0.0 - 3936.0' 2-7/8" OD TBG 6.5# J-55 8 RD EVE

3700.0 - 3708.0' RETRV. PACKER

0.0 - 3790.0' 7" OD 24.00#/ft CSG
 0.0 - 3787.0' 5" OD 15.00#/ft CSG

3761.0 - 3790.0' PERFS

3790.0 - 3940.0' 6-1/4" OD HOLE

KB ELEV: 3624'
 TD: 3940'

Proposed Injector
Updated 4/3/93

NMCSAU BLK 10 NO. 15 SEC 30 T19S R37E KB 3607(GL) TD 3935
LOCATED 330 FROM SOUTH LINE AND 2310 FROM EAST LINE
OPERATOR "MARATHON"
WELL NAME & NO. "ELLIOTT-STATE NO. 3"
ORIG. COMP. DATE 06/21/36

0.0 - 165.0' CEMENT TOC BY CALC (150 SX)
0.0 - 165.0' 12-1/2" OD CSG
0.0 - 1238.0' CEMENT TOC BY CALC (500 SX)
0.0 - 1820.0' CEMENT PERF CSG & CIRC CEMENT TO SURF (700 SX)
0.0 - 1238.0' 9-5/8" OD CSG

1820.0 - 3778.0' CEMENT (400 SX)

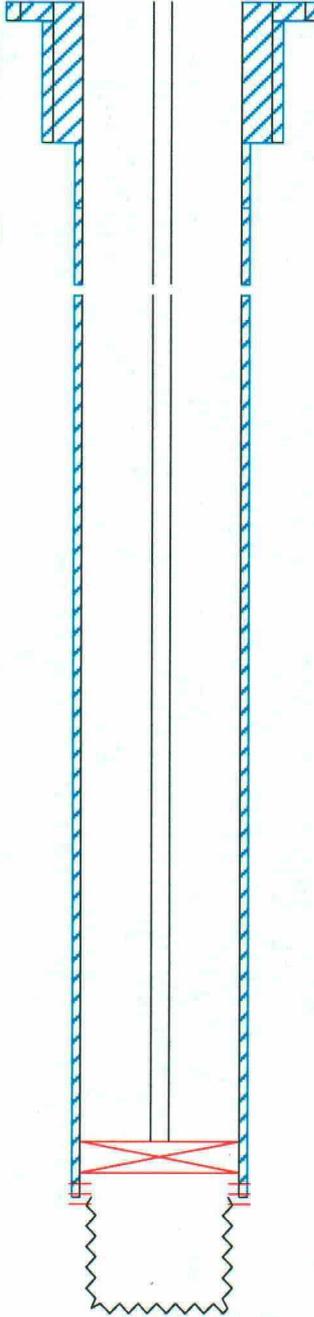
0.0 - 3700.0' 2.375" OD TBG

3700.0 - 3708.0' RETRV. PACKER

0.0 - 3778.0' 7" OD CSG

3750.0 - 3788.0' PERFS

3778.0 - 3935.0' 6" OD HOLE



KB ELEV: 3607'
TD: 3935'

CURRENT COMPLETION

3002505755
Updated 6/23/93

NMGS AU BLK 10 NO. 15 SEC 30 T19S R37E KB 3607(GL) TD 3935
LOCATED 330 FROM SOUTH LINE AND 2310 FROM EAST LINE
OPERATOR "MARATHON"
WELL NAME & NO. "ELLIOTT-STATE NO. 3"
ORIG. COMP. DATE 06/21/36

0.0 - 165.0' CEMENT TOC BY CALC (150 SX)

0.0 - 165.0' 12-1/2" OD CSG

0.0 - 1238.0' CEMENT TOC BY CALC (500 SX)

0.0 - 1238.0' 9-5/8" OD CSG

1820.0 - 3778.0' CEMENT (400 SX)

0.0 - 1820.0' CEMENT PERF CSG & CIRC CEMENT TO SURF (700 SX)

0.0 - 3778.0' 7" OD CSG

3778.0 - 3935.0' TREATMENT ACID 3000 GAL 6/36

3778.0 - 3935.0' TREATMENT 4000 GAL 15% ACID 3/87

3778.0 - 3935.0' 6" OD HOLE

KB ELEV: 3607'

TD: 3935'

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

AMERADA HESS CORPORATION

52
DRAWER D
MONUMENT, N.M. 88265
505 393-2144

October 9, 1996

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, New Mexico 87505-5472

Attn: Mr. Ben Stone

Ref: Letter of April 9, 1996
Application for Injection Permit - NMGSAU #1013 & 1015

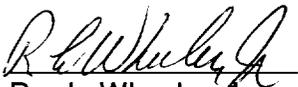
Dear Mr. Stone,

Attached is an Affidavit of Publication in Hobbs Daily News-Sun, Hobbs, N.M., concerning application to inject water in North Monument Grayburg San Andres Unit Well No.'s 1013 & 1015.

Amerada Hess Corporation respectfully request administrative approval to add above 2 referenced wells as injectors in North Monument Grayburg San Andres Unit as indicated in letter dated April 9, 1996.

If additional information is needed, please let us know at your earliest convenience.

Sincerely,


Roy L. Wheeler, Jr.

Attachments

xc: Mr. Jerry Sexton - NMOCD, Hobbs, N.M.
Robert L. Williams, Jr.
Ken Sigl

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I. Kathi Bearden

Publisher

of the Hobbs Daily News-Sun, a daily 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

September 24, 1996

and ending with the issue dated

September 24, 1996

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 3 day of

October, 1996

Sandra Cathett

Notary Public.

My Commission expires

August 29, 1999

(Seal)

LEGAL NOTICE

September 24, 1996

Amerada Hess Corporation, operator of record for the North Monument Grayburg/San Andres Unit (NMGSAU), hereby notifies of their desire to inject water into NMGSAU Well No's 1013 & 1015 located respectfully in Unit's M & O, Sec. 30, T19S. R37E, Lea County, N.M.. The NMGSAU '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 3720 feet to 3965 feet with a maximum injection pressure of 710 PSI.

Contact Mr. Robert L. Williams, Jr., Amerada Hess Corporation, Drawer D, Monument, N.M. 88265, Phone 505 393-2144 concerning questions regarding application.

Objections or requests for hearing concerning this application should be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days of this publication.

#14810

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.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I. Kathi Bearden

Publisher

of the Hobbs Daily News-Sun, a daily 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

September 24, 1996

and ending with the issue dated

September 24, 1996

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 3 day of

October, 1996

Sandra Catlett

Notary Public.

My Commission expires
August 29, 1999
(See)

LEGAL NOTICE

September 24, 1996

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#14810

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No 14810

LEGAL PUBLICATION INVOICE

HOBBS DAILY NEWS—SUN

BOX 860

HOBBS, NEW MEXICO 88241-0860 505-393-2123

DATES PUBLISHED	LINES	TIMES	AMOUNT	TAX	TOTAL
September 24, 1996	4.76"	1	24.40	1.46	25.86

NAME:

Amerada Hess Corp.

ACCOUNT NO.434005

ADDRESS:

Drawer D

CITY:

Monument, NM 88265

STATE:

ZIP:

DESCRIPTION

Pre-Paid Water injection well NMGSAU well #1013 & 1015

Legal notices are charged as an accommodation and are payable upon receipt of this invoice.