

SWD - 169  
Due 6/9/75

AMERADA HESS CORPORATION

DRAWER 817  
SEMINOLE, TEXAS 79360  
915-758-5805

May 21, 1975

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Application To Dispose of Salt  
Water in the Knowles Field,  
Lea County, New Mexico.

Gentlemen:

Amerada Hess Corporation is the owner and operator of oil and gas leases covering all lands in the SE/4 Sec 34-T16S-R38E, Knowles Devonian Field, Lea County, New Mexico.

As shown on the attached Plat of the area, the only two producing wells remaining in the field are the Axvig No. 1 and the Hamilton "A" No. 2, both being in the SE/4 of Section 34. Both of these wells are approaching depletion and the economic limit of operation.

Mechanical problems have developed in the current salt water disposal well. Since there are no well bores available for water disposal and the producers could not economically support either the drilling of a new disposal well or the hauling of produced water, we propose converting the Axvig No. 1 to a disposal well and depleting the Devonian reserves through Hamilton "A" No. 2. A satisfactory agreement has been worked out with both the royalty owners and surface owners of the Axvig Tract.

In the Axvig No. 1 disposal well, we propose to:

- a) Set a bridge plug above the Devonian and dump 35' of cement on top.
- b) Perforate and block squeeze with cement at the top and base of the San Andres Zone.
- c) Perforate the San Andres from 6300' to 6400' for water disposal.
- d) Set 2-3/8" plastic lined tubing on a packer at about 5000'.
- e) Dispose of 500 to 1500 barrels of water per day through the tubing. Injection should be without pressure.

Attached are:

- a) A plat of the area showing all wells and ownership in the field.

- b) An electric log of the proposed injection well.
- c) A diagrammatic sketch of the proposed equipment in subject well.
- d) Completed copy of Commission Form C-108.
- e) List of surface owners.

Since the proposed disposal zone does not produce oil or gas in the area, we request that this application be approved administratively. If for any reason this is not possible, please set it for hearing at an early date.

The land owners and the State Engineer are each being furnished a copy of this application.

Very truly yours,



A. E. Snyder  
Region Technical Service Manager

AES/caw

cc/ Mr. Joe Ramey  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico

State Engineers Office  
Capitol Building  
Santa Fe, New Mexico 87501

Mrs. Evelyn M Eversole  
3533 Mulldaa Ave.  
San Pedro, California 90732

Mrs. Maxine M. Moody  
10210 Baseline, SPC 17  
Alta Loma, California 91701

Mr. Alfred Martin  
1415 Kingstree Lane  
Houston, Texas 77058

Mrs. Betty M. Tylander  
3401 Washington Road  
West Palm Beach, Florida 33405

Mrs. Mattie Waite Bainbridge  
1531 5th Ave.  
Bessemer, Alabama 35020

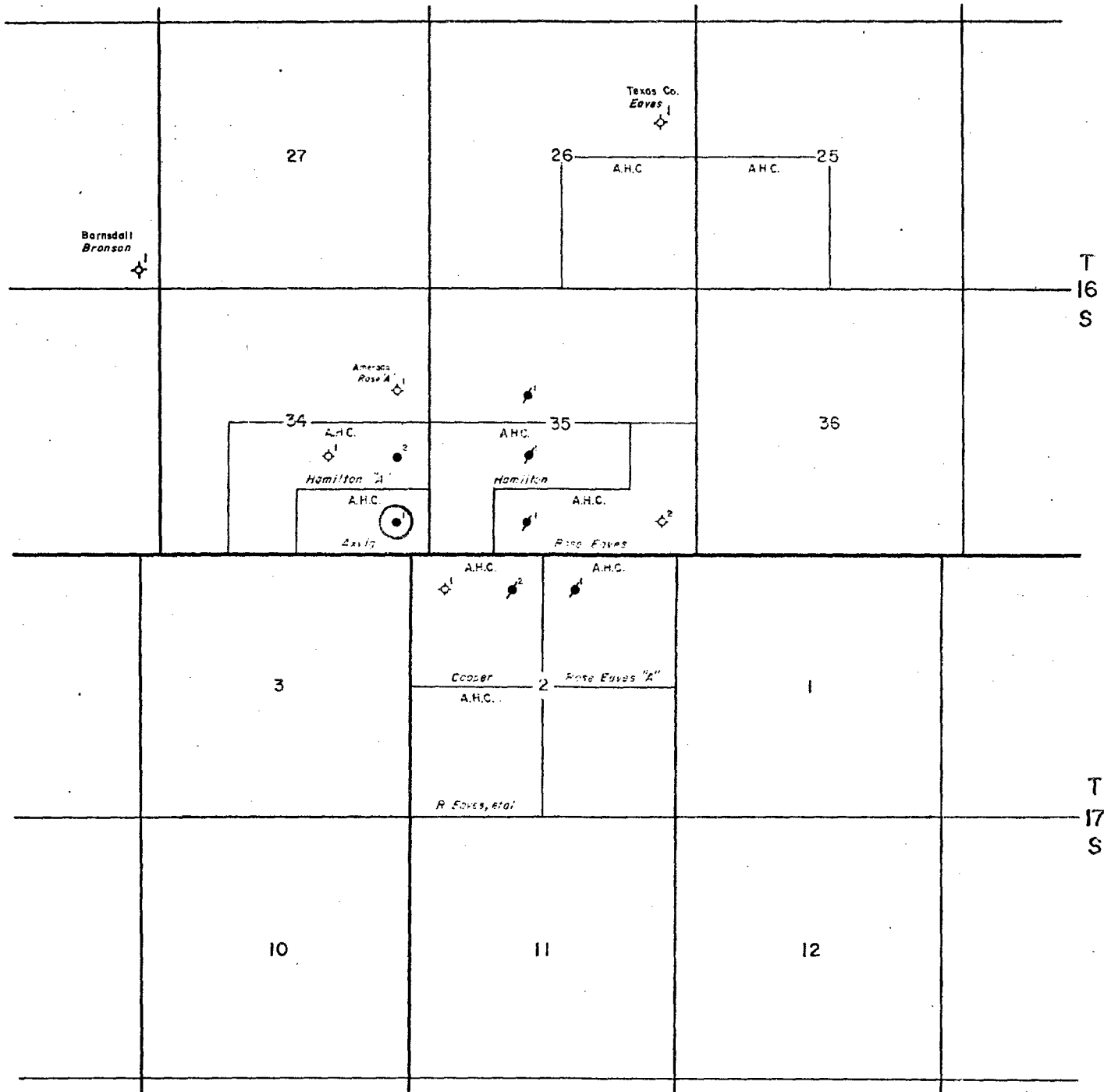
Mr. James T. Martin  
3909 Reche Road  
Space No. 129  
Fallbrook, California 92028

CONT.

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Mr. L. Madison Coombs  
2201 West 29th Street Terrace  
Topeka, Kansas 66611

R 38 E



KNOWLES (DEVONIAN) FIELD  
Lea County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>Amerada Hess Corp.</b>		ADDRESS <b>P. O. Drawer 817 Seminole, Texas</b>				
LEASE NAME <b>N. T. Axvig</b>	WELL NO. <b>1</b>	FIELD <b>Knowles</b>	COUNTY <b>Lea</b>			
LOCATION UNIT LETTER <b>P</b> ; WELL IS LOCATED <b>660</b> FEET FROM THE <b>South</b> LINE AND <b>660</b> FEET FROM THE <b>East</b> LINE, SECTION <b>34</b> TOWNSHIP <b>16S</b> RANGE <b>38 E</b> NMPM.						
<b>CASING AND TUBING DATA</b>						
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY	
SURFACE CASING	<b>13-3/8</b>	<b>261</b>	<b>200</b>	<b>circulated</b>		
INTERMEDIATE	<b>8-5/8</b>	<b>4782</b>	<b>1500</b>	<b>2009</b>	<b>Temp. Survey</b>	
LONG STRING	<b>5-1/2</b>	<b>12440</b>	<b>600</b>	<b>9516</b>	<b>Temp. Survey</b>	
TUBING	<b>2-3/8</b>	<b>5000</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Guiberson KVL 30</b>			
NAME OF PROPOSED INJECTION FORMATION <b>San Andres</b>		TOP OF FORMATION <b>5092'</b>		BOTTOM OF FORMATION <b>6427'</b>		
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLES? <b>Perforations</b>		PROPOSED INTERVAL(S) OF INJECTION <b>6300' to 6400'</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Devonian Oil Well</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>Yes</b>		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>Devonian From 12,327' to 12,393'. Will set bridge plug and dump cement.</b>						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>250 +</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>Devonian at 12,242'</b>		
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM <b>500</b>	MAXIMUM <b>1500</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Gravity</b>	APPROX. PRESSURE (PSI) <b>-----</b>	
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF <b>yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>yes</b>	ARE WATER ANALYSES ATTACHED? <b>No</b>	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>See attached list of seven owners</b>						
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>None except Amerada Hess</b>						
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER <b>Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>None</b>		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA <b>Yes</b>		ELECTRICAL LOG <b>Yes</b>		DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

*A. E. Snyder*  
(Signature)Region Tech Services Manager  
(Title)May 21, 1975  
(Date)

NOTE: Should waivers from 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, if the applicant so requests. SEE RULE 701.

**AMERADA HESS CORPORATION**  
**INTEROFFICE CORRESPONDENCE**

**TO:** A. E. Snyder - Seminole

**MEMO NO.** JLM/75/31

**FROM:** J. L. Mathis - Tulsa

**DATE** March 7, 1975

**SUBJECT:** Lease NM-1073  
S/2 SE/4 Sec. 34-16S-38E  
Lea County, New Mexico  
Nona T. Axvig No. 1 Well  
Knowles Area

The surface ownership of the subject acreage is as follows:

Mrs. Evelyn M. Eversole 1/12  
3533 Mulldae Ave.  
San Pedro, California 90732

Mrs. Maxine M. Moody 1/12  
10210 Baseline, SPC 17  
Alta Loma, California 91701

Mr. Alfred Martin 1/12  
1415 Kingstree Lane  
Houston, Texas 77058

Mrs. Betty M. Tylander 1/12  
3401 Washington Road  
West Palm Beach, Florida 33405

Mrs. Mattie Waite Bainbridge 1/12  
1531 5th Ave.  
Bessemer, Alabama 35020

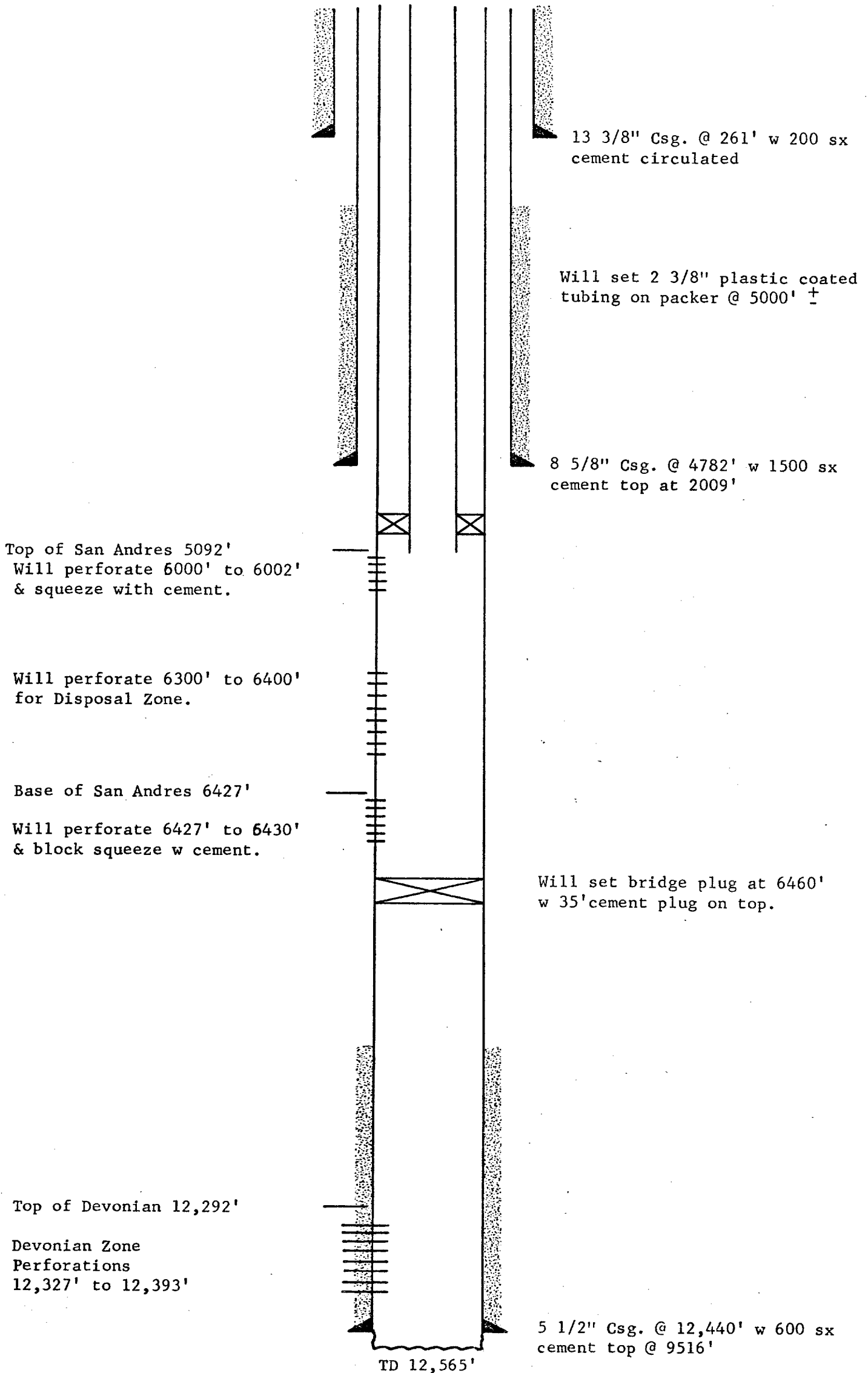
Mr. James T. Martin 1/12  
3909 Reche Road  
Space No. 129  
Fallbrook, California 92028

Mr. L. Madison Coombs 1/2  
2201 West 29th Street Terrace  
Topeka, Kansas 66611

  
J. L. Mathis

JLM/dd

Amerada Hess Corp.  
N.T. Axvig No. 1  
Unit P - Sec 34 - T16S - R38E  
Knowles Field  
Lea County, New Mexico



OIL CONSERVATION COMMISSION  
Hobbs DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE June 5, 1975

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD X \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the Amerada Hess Corp. N. T. Axvig #1-P 34-16-38  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O. K. ---J.W.R.

Yours very truly,

*John A. Runyan*