



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

May 3, 1991

MGM Oil & Gas Company  
P.O. Box 891  
Midland, Texas 79702-7714

Attention: Randy Foster

Re: Amendment of Order No. SWD-308

Dear Mr. Foster:

Reference is made to your request dated March 4, 1991, to amend Division Order No. SWD-308 which order authorized the use of the Emma Lawrence Well No. 1, located in Unit I of Section 23, Township 17 South, Range 38 East, NMPM, Lea County, as a water disposal well in the San Andres formation, injection to occur at a depth of 5770 feet to 6263 feet. It is our understanding that you wish to expand the injection interval to include perforations from 5350 feet to 5406 feet, said perforations also in the San Andres formation.

You are hereby authorized to expand the injection interval in the subject well to include the perforated interval from 5350 feet to 5406 feet subject to the following condition:

1) The subject well, after movement of the packer, shall be pressure tested to assure the integrity of the casing in accordance with the requirements set forth by the supervisor of the Hobb's district office of the Division.

Sincerely,

William J. LeMay  
Director

xc: OCD-Hobbs  
File-SWD-308

OIL CONSERVATION DIVISION  
STATE LAND OFFICE BUILDING  
SANTA FE NEW MEXICO 87501  
RECEIVED

APPLICATION FOR AUTHORIZATION TO INJECT  
MAY 7 AM 9 12

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: MGM OIL & GAS COMPANY

Address: P.O. Box 891, Midland, Texas 79702-0891

Contact party: Greg Mauzy Phone: (915)-682-7714

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 \_\_\_\_\_.

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: Greg Mauzy Title: President

Signature:  Date: March 4, 1991

\* 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. Per our files permit filed 2-3-87

## 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 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.

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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.

MGM OIL & GAS COMPANY		EMMA LAWRENCE SWD SYSTEM	
OPERATOR		LCA5C	
#1	Unit I, 660' FEL & 1980' FSL	Section 23,	T-17-S,
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP
			RANGE
			R-38-E

Schematic

SEE ATTACHED

Tabular Data

Surface Casing

Size 13 3/8 54.5# " Cemented with 500 sx.

TOC Surface feet determined by Circulated

Hole size 17 1/2"

Intermediate Casing

Size 8 5/8 28# " Cemented with 2400 sx.

TOC Surface feet determined by Circulated

Hole size 11"

Long string

Size 5 1/2 17# " Cemented with 550 sx.

TOC 7,400' feet determined by Temperature survey

Hole size 7 7/8

Total depth 12,249'

Injection interval

5,350' feet to 6,263' feet

(perforated or open-hole, indicate which)

Original paper  
576'-6263'  
Add  
5350-5406

Tubing size 2 7/8 I-80 lined with Plastic (material) set in a

Baker Nickel Plated Loc-Set packer at 5,300 feet  
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Premier/San Andres

2. Name of Field or Pool (if applicable) Knowles Southeast

3. Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled? Devonian Test

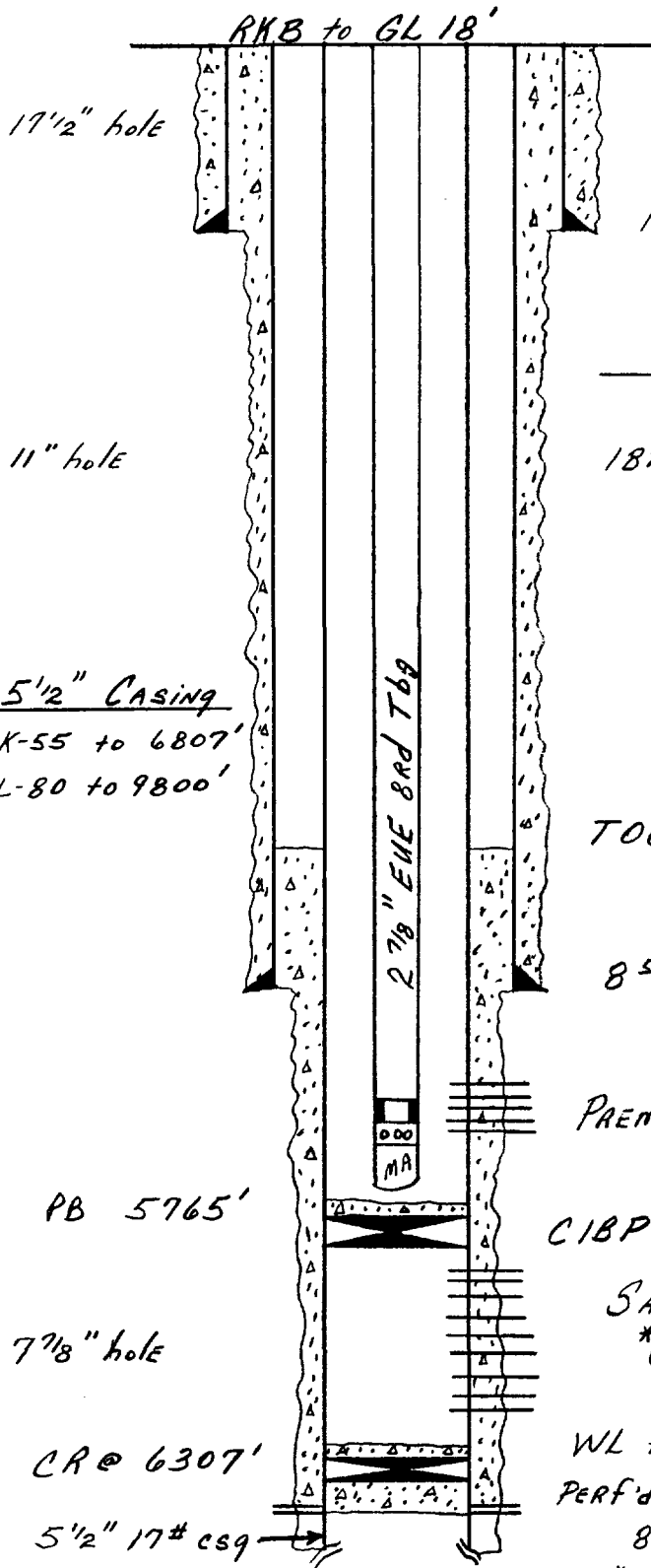
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) see schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Wolfcamp @ 9,200' / Devonian @ 12,200'

# General Purpose Worksheet

Subject	EMMA LAWRENCE #1	Page No.	1	Of	2
File	CONVERT to SWD in SA	By	T. DAY	Date	2/18/86

## PRESENT STATUS



13 3/8" 54.5# csq @ 418' w/ 500 sx cmt Circ'd

## Completion Assembly

182 Jts 2 7/8" 6.5# L-80 EUE BRD +bg  
 2 7/8" SN @ 5718'  
 2 7/8" EUE BRD PERF Sub  
 2 7/8" EUE BRD Mud Anchor  
 CA btmd @ 5751'

TOC behind 5 1/2" csq @ 4550' by TS

8 5/8" 28# csq @ 5020' w/ 2400 sx cmt Circ'd

PREMIER perfs 5350 - 5406' (18 - 0.48" holes)

CIBP @ 5800' w/ 35' cmt on top

SAN ANDRES perfs 5839 - 6242' (24 holes)  
 \*(SEE individual perfs on btm of pg 2)

WL tag'd TOC @ 6300'

PERF'd 5 1/2" csq @ 6350' w/ 4 holes AND cmt'd  
 8 5/8" x 5 1/2" ANN w/ 400 sx. TOC @ 4550' (TS)

\* CONTINUED ON PAGE 2



Subject	EMMA LAWRENCE # 1	Page No.	2	Of	2
File	CONVERT to SWD in SA	By	T. DAY	Date	2/18/86

PRESENT STATUS

\* CONTINUED F1 PAGE # 1

Original TOC @ 7400' by TS

Cmt Plug in 5'1/2" csq Fl 7490-7700' w/ 25 sx

CIBP @ 9270' w/ 30' cmt on top

Wolfcamp perms 9319- 9404' (12 holes)

CIBP@ 9670' w/ 28' cmt on top

Wolfcamp perms 9722-9770' (100 holes)

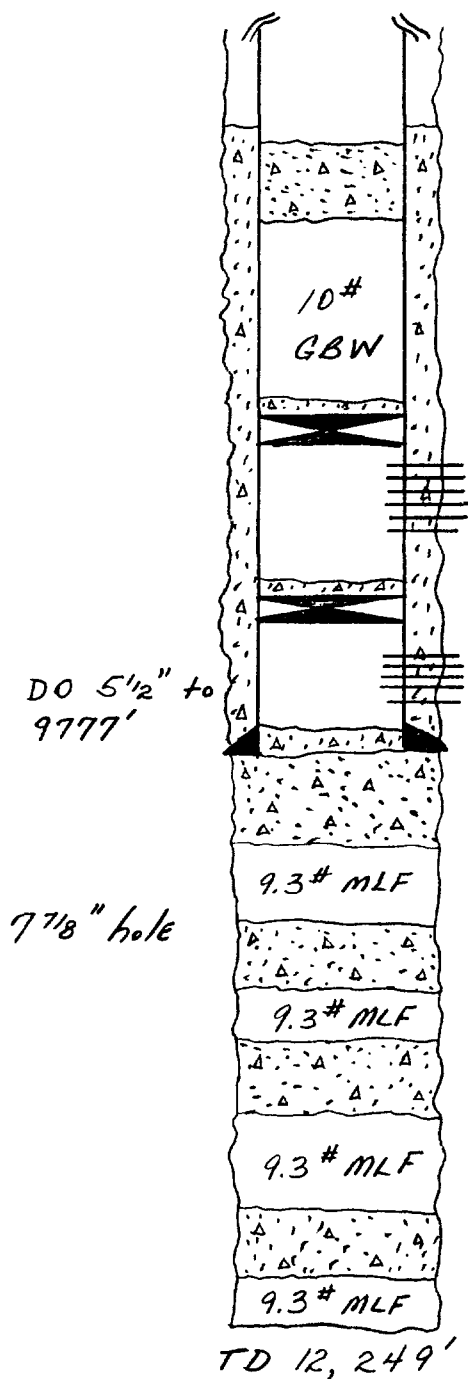
5'1/2" 17# csq @ 9800' w/ 550 sx cmt

Cmt Plug in OHFI 9800 - 9974' w/ 100 SX

Cmt Plug in OH Fl 10,751-10,851' w/ 50 sx

Cont Plug in OH #1 11,214 - 11,314' w/ 50 SX

Cmt Plug in OH #1 12,133 - 12,293' w/ 50 sx

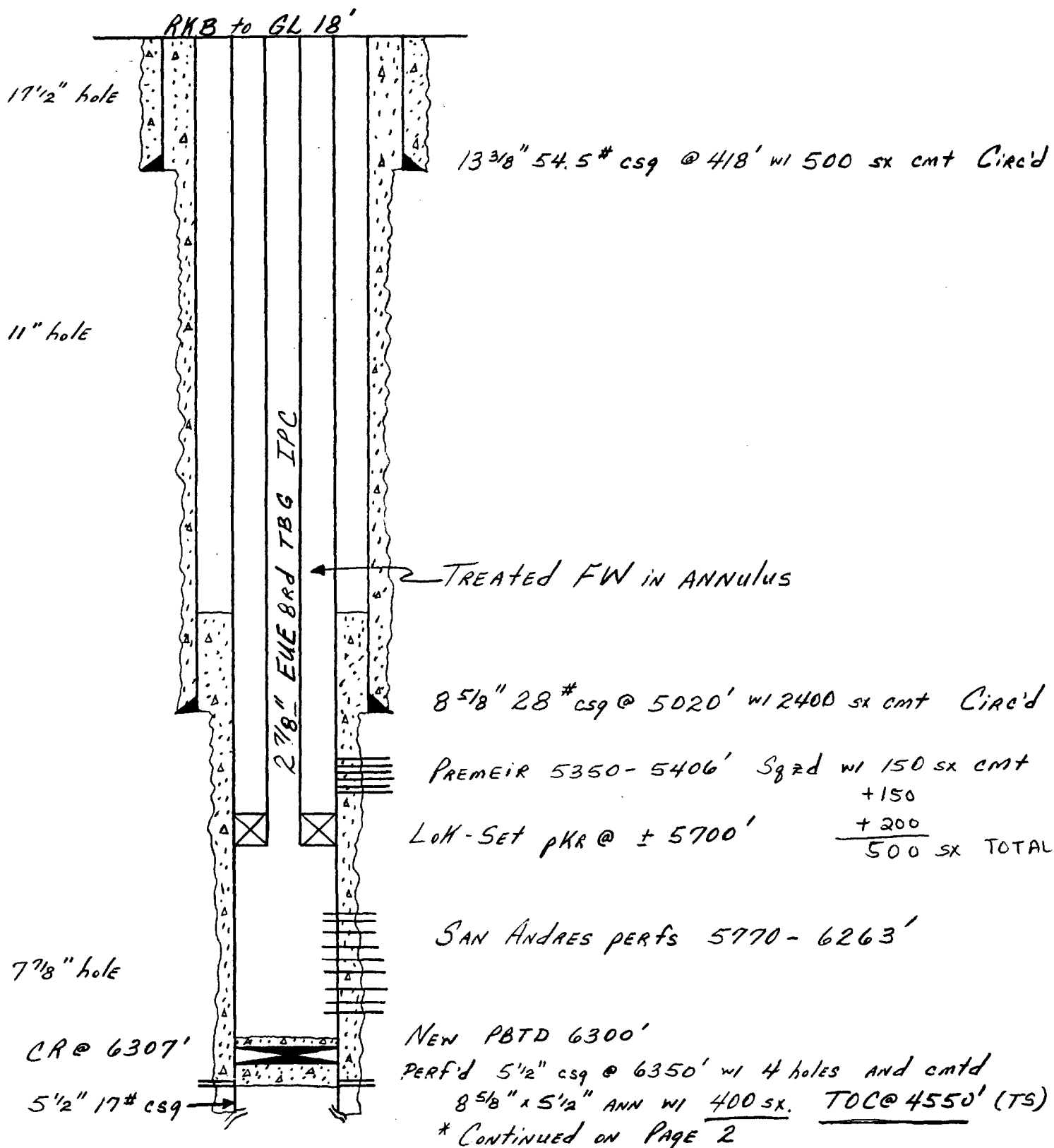


\* SAN ANDRES perfs : 5839'; -90'; 5920'; -40'; -51'; -65';  
5976'; -94'; -95'; 6003'; -22'; -33';  
6105'; -34'; -35'; -40'; -57'; 6216'; -28';  
6232'; -37'; -40'; -41'; AND 6242' (Acdd)

# General Purpose Worksheet

Subject	EMMA LAWRENCE #1	Page No.	1	Of	2
File	CONVERT to SWD in SA	By	T. DAY	Date	2/18/86

## Proposed Completion





# General Purpose Worksheet

Subject	EMMA LAWRENCE # 1	Page No.	2	Of	2
File	CONVERT to SWD in SA	By	T. DAY	Date	2/18/86

## Proposed Completion

\* CONTINUED FI PAGE # 1

Original TOC @ 7400' by TS

Cmt Plug in 5 1/2" CSG FI 7490-7700' w/ 25 SX

CIBP @ 9270' w/ 30' cmt on top

Wolfcamp perfs 9319-9404' (12 holes)

CIBP @ 9670' w/ 28' cmt on top

Wolfcamp perfs 9722-9770' (100 holes)

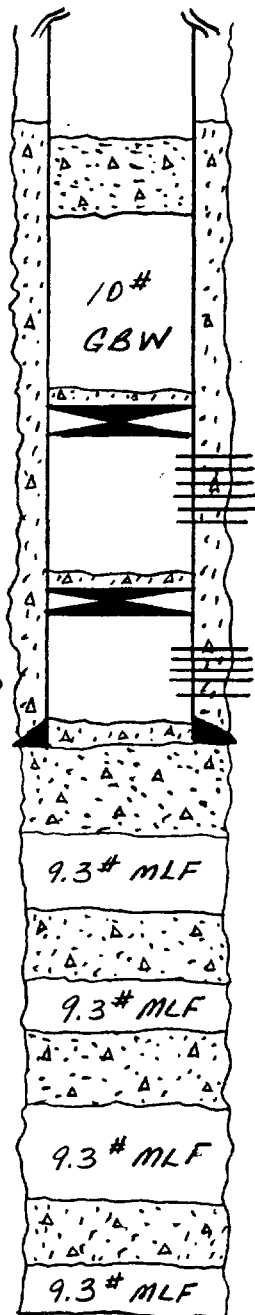
5 1/2" 17# CSG @ 9800' w/ 550 SX cmt

Cmt Plug in OH FI 9800-9974' w/ 100 SX

Cmt Plug in OH FI 10,751-10,851' w/ 50 SX

Cmt Plug in OH FI 11,214-11,314' w/ 50 SX

Cmt Plug in OH FI 12,133-12,233' w/ 50 SX



DO 5 1/2" to  
9777'

7 7/8" hole

TD 12,249'

**AFFIDAVIT OF PUBLICATION**

State of New Mexico,  
County of Lea.

I, Kathi Bearden

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 \_\_\_\_\_

Four weeks.  
Beginning with the issue dated

March 13, 19 91  
and ending with the issue dated

March 13, 19 91

Kathi Bearden  
General Manager

Sworn and subscribed to before

me this 20 day of

March, 19 91

Rhonda Copeland  
Notary Public.

My Commission expires \_\_\_\_\_

July 24, 19 91  
(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**  
March 13, 1991  
**PUBLIC NOTICE**  
**APPLICATION FOR**  
**WATER DISPOSAL**  
MGM OIL & GAS COMPANY, P.O. BOX 891, MIDLAND, TEXAS 79702-0891, (915) 682-7714 has made application to the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the MGM OIL & GAS COMPANY #1 Emma Lawrence Well, located 660' FEL & 1980 FSL of Section 23, T-17-S, R-38-E, NMPM, Lea County, New Mexico. The purpose of this water injection well is to dispose of salt water, produced from wells in the area, with the water to be injected into the Premier/San Andres formation. The minimum injection rates to

be 200 barrels of water a day, the maximum injection rate expected to be 2000 barrels per day. Minimum injection pressure will be 300 psi and maximum injection pressure is expected to be 1200 psi.

Any interested party may file an objection to this Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87504-2088, within 15 days from date of this publication.

MGM OIL &  
GAS COMPANY  
By: GREG MAUZY  
P.O. Box 891  
Midland,  
Texas 79702-0891  
(915) 682-7714

91 APR 3 AM 8 54  
OL CONSERV. DIVISION  
RECEIVED



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION  
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91 MAR 8 AM 8 32

3-4-91

BRUCE KING  
GOVERNOR

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 X \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Mgm Oil & Gas Co. Emma Lawrence #1-I 23-17-38  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Did not GET ACTIVE APPLICATION

No Recommendation

Yours very truly,

Jerry Sexton  
Jerry Sexton  
Supervisor, District 1

/ed