

Memo

From

DAVID CATANACH
Petroleum Engineer

Case 8493

To Mike

Proposed Inj. zone - 5835-6050 for
now, but they want approval for 4630-6050
in case they have to use additional zone.

Wells in question are:

Huber
Stoltz Federal #1 S 12-15-34
They have squeezed some holes in case from
5472'-7480' but annulus is open from
5472' on up.

Huber
Superior State #1 S 7-15-35
Case annulus open from 5960' to surface.
TOC - 5960.

Union Oil of Calif.
'A' Federal #1 S 12-15-34
TOC - 7680'
5 1/2" annulus open from there to surface

Oil Conservation Division
PO Box 2088, Santa Fe, New Mexico 87501

DANIEL S. NUTTER

REGISTERED PETROLEUM ENGINEER

PETROLEUM CONSULTATION AND STATE AND FEDERAL REGULATORY SERVICES

105 EAST ALICANTE

SANTA FE, NEW MEXICO 87501

PHONE (505) 982-0757

February 28, 1985

Mr. Michael E. Stogner, Examiner
Oil Conservation Division
New Mexico Energy and Minerals Department
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Case No. 8493, Application of
J. M. Huber Corporation For Salt
Water Disposal, Lea County, N.M.

Dear Mr. Stogner:

Please find enclosed our proposed order for disposition of Case No. 8493, the application of J.M. Huber Corporation for authority to convert its Cabot "Q" State Well No. 1 to salt water disposal, which you heard on February 27, 1985.

As discussed at the hearing, while the application is for authority to dispose of produced brines into the San Andres formation in the overall interval from 4630 feet to 6050 feet, initial injection will probably be confined to the interval from 5839 feet to 6050 feet.

As you will note from the proposed order, we have handled this by authorizing immediate disposal into the lower section, with future disposal into the upper section of the San Andres upon approval by the Hobbs district supervisor and notification to the Division Director by means of a memorandum to Case File 8493. We believe that this procedure should be adequate to keep all concerned fully advised as to the status of the disposal well.

Please feel free to call me if you have any questions about this case or the proposed order.

Very truly yours,



Daniel S. Nutter, P.E.

DSN:ms

cc: James T. Jennings, Esq.
P.O. Box 1180
Roswell, NM 88201

DANIEL S. NUTTER

REGISTERED PETROLEUM ENGINEER

PETROLEUM CONSULTATION AND STATE AND FEDERAL REGULATORY SERVICES

105 EAST ALICANTE

SANTA FE, NEW MEXICO 87501

PHONE (505) 982-0757

February 28, 1985

Mr. Michael E. Stogner, Examiner
Oil Conservation Division
New Mexico Energy and Minerals Department
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Case No. 8493, Application of
J. M. Huber Corporation For Salt
Water Disposal, Lea County, N.M.

Dear Mr. Stogner:

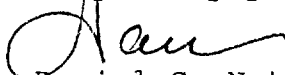
Please find enclosed our proposed order for disposition of Case No. 8493, the application of J.M. Huber Corporation for authority to convert its Cabot "Q" State Well No. 1 to salt water disposal, which you heard on February 27, 1985.

As discussed at the hearing, while the application is for authority to dispose of produced brines into the San Andres formation in the overall interval from 4630 feet to 6050 feet, initial injection will probably be confined to the interval from 5839 feet to 6050 feet.

As you will note from the proposed order, we have handled this by authorizing immediate disposal into the lower section, with future disposal into the upper section of the San Andres upon approval by the Hobbs district supervisor and notification to the Division Director by means of a memorandum to Case File 8493. We believe that this procedure should be adequate to keep all concerned fully advised as to the status of the disposal well.

Please feel free to call me if you have any questions about this case or the proposed order.

Very truly yours,



Daniel S. Nutter, P.E.

DSN:ms

cc: James T. Jennings, Esq.
P.O. Box 1180
Roswell, NM 88201

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 8493
Order No. R-

APPLICATION OF J.M. HUBER CORPORATION
FOR SALT WATER DISPOSAL, LEA COUNTY,
NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8 a.m. on February 27, 1985, at Santa Fe, New Mexico, before the Examiner Michael E. Stogner.

NOW, on this ____ day of March, 1985, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, J.M. Huber Corporation, is the owner and operator of the Cabot "Q" State Well No. 1, located 1980 feet from the South line and 560 feet from the West line of Section 7, Township 15 South, Range 35 East, NMPM, Morton-Wolfcamp Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres formation, with initial injection to be into selected perforated intervals between 5839 feet and 6050 feet, and possible additional perforations within the overall interval from 4630 feet to 5839 feet.

(4) That the injection should be accomplished through 2 7/8-inch plastic-lined tubing installed in a packer; that said packer should be set at approximately 5800 feet if the perforations are confined to the above-described interval from 5839 feet to 6050 feet, but that the packer should be set as near as is practicable above the uppermost perforation if additional perforations are made in the above-described interval from 4630 feet to 5839 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(5) That the injection well or system should be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well; that if the perforations are confined to the 5839-6050 foot interval described in Finding No (3) above, the aforesaid wellhead pressure limitation should be 1168 psi, but if additional perforations are opened up in the above-described 4630-5839 foot interval, the maximum wellhead pressure injection pressure should be limited to an amount equal to 0.2 psi times the depth in feet to the uppermost injection perforation.

(6) That the Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the San Andres formation.

(7) That prior to beginning work to convert said well to salt water disposal, the operator should obtain approval of the plugback of said well to the base of the San Andres formation from the Supervisor of the Division's district office at Hobbs.

(8) That the operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that same may be inspected.

(9) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(10) That should the operator open additional injection perforations in the subject well above 5839 feet, it should notify the Division Director by memorandum to Case File No. 8493, and should also notify the supervisor of the Hobbs district office of the Division by filing Division Form C-103 and obtain his approval prior to making such perforations.

(11) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, J.M. Huber Corporation, is hereby authorized to utilize its Cabot "Q" State Well No. 1, located 1980 feet from the South line and 560 feet from the West line of Section 7, Township 15 South, Range 35 East, NMPM, Morton-Wolfcamp Pool, Lea County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 5800 feet, with injection into the perforated interval from approximately 5939 feet to 6050 feet;

PROVIDED HOWEVER, that the tubing shall be plastic lined; that the casing-tubing annulus shall be filled with a inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

PROVIDED FURTHER, that prior to beginning work to convert said well to salt water disposal, the operator shall obtain approval of the plugback of said well to the base of the San Andres formation from the supervisor of the Division's district office at Hobbs.

(2) That the injection well or system shall be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1168 psi.

(3) That the operator is further authorized to open additional perforations the San Andres formation in said well in the interval from 4630 feet to 5839 feet, provided however, that should such additional perforations be deemed necessary, the operator shall first obtain approval for same

from the supervisor of the Division's Hobbs district office on Division Form C-103, and upon completion of such additional perforations, shall notify the Division Director by memorandum to Case File No. 8493, and provided further, that should such additional perforations be made, the tubing shall be installed in a packer set as near as practicable to the uppermost injection perforation, and the pressure limiting equipment described in Order No. (3) above shall be so set as to limit the wellhead injection pressure to no more than 0.2 psi times the depth in feet to the uppermost injection perforation.

(4) That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the San Andres formation.

(5) That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of installation of disposal equipment so that the same may be inspected.

(6) That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing, casing, or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(7) That the applicant shall conduct disposal operations and submit monthly reports in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

RICHARD L. STAMETS,
Director

