

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

February 28, 1966

C
O
P
Y

Sinclair Oil & Gas Company
Box 1920
Hobbs, New Mexico

Attention: Mr. Fred Burns

Re: SWD-13 Revision

Gentlemen:

As per your request dated February 9, 1966, Administrative Order SWD-13 is hereby revised to read:

IT IS THEREFORE ORDERED:

That the applicant herein, Sinclair Oil & Gas Company, is hereby authorized to complete its State Well No. 1 located in Unit D of Section 4, Township 16 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Tansil, Yates and San Andres formations at approximately 3045 feet to 6570 feet through 2 7/8 inch tubing with a packer set at approximately 3020 feet in 5 1/2 inch casing.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission - Hobbs
Oil & Gas Engineering Committee - Hobbs

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SINCLAIR OIL & GAS COMPANY DALLAS OFFICE 000

February 9, 1966

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State of New Mexico
Oil Conservation Commission
Mr. A. L. Porter, Jr.
Secretary-Director
Box 2088
Santa Fe, New Mexico

Dear Sir:

Administrative Order #SMD-13 dated May 19, 1958, approved the disposal of salt water into porous interval in the Yates and San Andres formation in Sinclair's State Well #1 located in Section 4, T-16-S, R-37-E, Lea County, New Mexico.

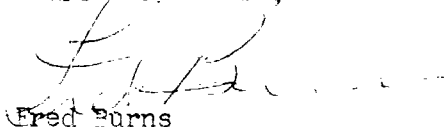
Disposal has been thru tubing with an oil blanket placed in the casing annulus for corrosion protection. The injection pressure has been approximately 2200#. A casing leak developed recently between 800-900', and injection was resumed thru tubing with a packer set at 3147'. Subsequently a decision was made to run a string of 5-1/2" casing for protection of the upper formations.

During this operation a fishing job occurred, and it appears that we have gone out of the 8-5/8" casing around 3147' and down the outside of the pipe to 3223'. Injection was resumed, 1100# surface pressure, thru tubing with a packer set in the 8-5/8" casing at 3085'. Because of the difference in injection pressures a differential temperature and gradient survey was made to determine the area of injection. This showed that water was being injected into a porosity zone in the Tansil section from 3045-3100'. There was no indication of movement above.

Sinclair proposes to run a string of 5-1/2" casing set at 3030' and cement to surface. Injection will be thru tubing below a packer. Therefore, it is requested that administrative Order #SMD-13 be broadened to include injection into the Tansil section. Attached is a schematic diagram of the well and proposed installation.

As a matter of interest, we have discussed this with Mr. Joe D. Pamey, District 1 Supervisor, and the program as outlined appeared satisfactory.

Yours very truly,


Fred Burns

FB/RS/jh

Attachment

SINCLAIR OIL & GAS COMPANY
WATER DISPOSAL WELL - STATE #1
Sec. 4, T16S, R37E,
DEAN DEVONIAN & DEAN PERM' P'N PENN POOLS
Lea County, New Mexico

