

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5853  
Order No. R-5433

APPLICATION OF CARL ENGWALL FOR  
AN EXCEPTION TO THE CASING AND  
CEMENTING REQUIREMENTS OF ORDER  
NO. R-111-A, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 2, 1977,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 24th day of May, 1977, the Commission, a  
quorum being present, having considered the testimony, the  
record, and the recommendations of the Examiner, and being  
fully advised in the premises,

FINDS:

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

(2) That the applicant, Carl Engwall, proposes to drill  
a well to test the Yates-Seven Rivers formations in Unit L of  
Section 27, Township 20 South, Range 34 East, NMPM, Lynch  
Yates-Seven Rivers Pool, Lea County, New Mexico.

(3) That said well would be located in the Potash-Oil  
Area as defined by Commission Order No. R-111-A, as amended,  
and therefore would be subject to the casing and cementing  
requirements promulgated by said order for wells drilled  
within said area.

(4) That the applicant seeks approval for an exception to  
the aforesaid casing and cementing requirements to permit  
drilling and completing said well utilizing a short surface  
casing string and no salt protection string.

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(5) That applicant's proposed exception to the surface casing requirement appears to afford adequate protection to the known water sands in the area and should be approved.

(6) That the proposed exception to the salt protection string requirement will not afford adequate protection to the potash in the subject area, could result in waste, and should be denied.

(7) That as an alternate to the casing and cementing program proposed by the applicant, the Commission should approve a program that will require the permanent installation of a minimum of casing, thereby resulting in substantial savings to the applicant, but will yet provide adequate protection to the salt section in the subject well, and will not cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That the application of Carl Engwall for an exception to the casing and cementing requirements of the Potash-Oil Area as promulgated by Order No. R-111-A, to permit the drilling of a proposed well in the NW/4 SW/4 of Section 27, Township 20 South, Range 34 East, NMPM, Lynch Yates-Seven Rivers Pool, Lea County, New Mexico, without utilizing a salt protection string is hereby denied.

(2) That the applicant, in lieu of his proposed casing and cementing program, is hereby authorized to case and cement the above-described well in the following manner, in exception to the provisions of Order No. R-111-A:

- (a) Set surface casing at 350 feet or such greater depth as may be necessary to case off any known water-bearing strata in the vicinity of said well, circulating cement on said casing back to the surface.
- (b) Set and mud-in a salt protection casing string not less than 100 feet below the base of the salt section.
- (c) If the well is to be completed as a producer, production casing shall be set on top of or through the Seven Rivers formation at an approximate depth of 3750 feet, after the reservoir has been evaluated by logging or testing. The salt protection string may be pulled after the production casing has been run.

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HOBBES, H. C.


The production casing shall be cemented with sufficient cement to protect any pay zone and the salt section and fill the annular space behind the pipe to the surface.

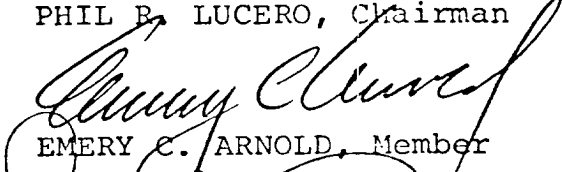
- (d) All cement mixtures, cement waiting times, and testing procedures shall be in accordance with the applicable provisions of Order No. R-111-A insofar as said provisions are not inconsistent with this order.
- (e) Upon abandonment, the well shall be plugged in accordance with the provisions of Order No. R-111-A.

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

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
PHIL B. LUCERO, Chairman

  
EMERY C. ARNOLD, Member

  
JOE D. RAMEY, Member & Secretary

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U. S. Geological Survey

HOBBS DISTRICT

Carl Engwall  
No. 1 Fletcher Federal  
NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27-20S-34E  
Lea County, N. M.

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
6. Gamma Ray-Sonic log is required from base of Salado to the surface in open hole at logging speed no greater than 30 feet per minute.
7. Surface restoration to be in accordance with operator-landowner agreement as it appears in the Surface Use Plan.

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