

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
JUL 21 1944
HOBBS OFFICE

DUPLICATE

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>

Hobbs, N. M. July 13, 1944

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Skelly Oil Company State "N" Well No. 5 in SE NW
Company or Operator Lease

of Sec. 31, T. 16, R. 37, N. M. P. M., Se. Lovington Field,
County.

FULL DETAILS OF PROPOSED PLAN OF WORK
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Drilled to TD 4610' in Line, ran and cemented 5 1/2" casing at TD with 350 sacks. Job completed 7-13-44 - 5:00 AM. Will let stand 72 hours then drill plug and test for casing shut off.

JUL 21 1944

Approved _____, 19____
except as follows:

APPROVAL CONDITIONED UPON
COMPLIANCE WITH REQUIREMENTS
OF OPO-WEB.

SKELLY OIL COMPANY
Company or Operator

By J. N. Dulaney
Position Dist. Supt.
Send communications regarding well to

Name SKELLY OIL COMPANY

Address DRAWER "D"

HOBBS, NEW MEXICO

OIL CONSERVATION COMMISSION,
By Roy Yarkrath
Title OIL & GAS INSPECTOR

PROBLEM SET 1

1. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the ground state, $\psi(x) = A e^{-\alpha x^2}$. Find α and E .

2. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the first excited state, $\psi(x) = B x e^{-\alpha x^2}$. Find α and E .

3. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the second excited state, $\psi(x) = C (x^2 - a^2) e^{-\alpha x^2}$. Find α and E .

4. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the third excited state, $\psi(x) = D (x^3 - bx) e^{-\alpha x^2}$. Find α and E .

5. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the fourth excited state, $\psi(x) = E (x^4 - cx^2 + d) e^{-\alpha x^2}$. Find α and E .

6. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The wave function $\psi(x)$ satisfies the Schrödinger equation $-\frac{\hbar^2}{2m}\frac{d^2\psi}{dx^2} + \frac{1}{2}kx^2\psi = E\psi$. For the fifth excited state, $\psi(x) = F (x^5 - ex^3 + fx) e^{-\alpha x^2}$. Find α and E .