

OIL CONSERVATION COMMISSION

P. O. BOX 2045
HOBBS, NEW MEXICO

Date March 6, 1956

TO:

Samedna Oil Corp.

Box 2137

Hobbs, New Mexico

Gentlemen:

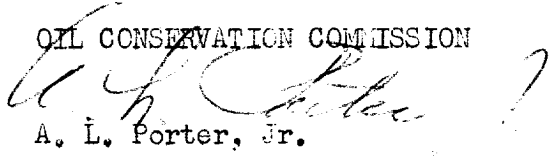
In accordance with the provisions of Commission Order No. R-767,
your Hughes B-4 #7-E 17-23-37,
Lease and Well No. S-T-R

which is producing from the Queen formation, has been
placed in the Langlie-Mattix Pool, and from this date forward
will be subject to the Commission's rules and regulations governing
that pool.

You are hereby instructed to file Form C-110 in quintuplicate with
the Hobbs office showing the change in pool designation.

All future Commission reports for this well must be filed under
the name of the pool in which it is now located.

OIL CONSERVATION COMMISSION


A. L. Porter, Jr.
Proration Manager

cc: CCC, Santa Fe
Transporter- **TBM**

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 435

PROBLEM SET 1

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1. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

2. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

3. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

4. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

5. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

6. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

7. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

8. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

9. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

10. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

11. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

12. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

13. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24} + \frac{1}{26}mx^{26}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.

14. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24} + \frac{1}{26}mx^{26} + \frac{1}{28}nx^{28}$. Find the energy levels E_n and the wave functions $\psi_n(x)$ for $n = 0, 1, 2$.