

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

NOV 28 1940

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on major operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:
Following is a report on the work done and the results obtained under the heading noted above at the _____

Bradley Oil Company Well No. 1 in the
Langhart Company or Operator
NE of Sec. 26, T. 25S, R. 37E, N. M. P. M.,
Jal or Langley Field, Lea County

The dates of this work were as follows: _____

Notice of intention to do the work was ~~(was not)~~ submitted on Form C-102 on _____ 19____
and approval of the proposed plan was ~~(was not)~~ obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged back from 3301 ft. to 3114 ft= 13 ft. in 7 inch casing
7 inch casing set 3127 ft.
Perforated 7 inch casing with 39-5/8 inch holes= from 2540 ft. to 3080 ft.
After using 2000 gal. acid from 2760 ft. to 2820 ft., well gauged 8 million cu. ft. gas.
Used 110 sks. Starcor cement
13 sks. Acquagel
3 bales Fibertex
to complete job.

Witnessed by Harold Lambert Name _____ Company _____ Title _____

Subscribed and sworn to before me this _____
26 day of Nov 19 40
Joseph A Bowden
Notary Public

I hereby swear or affirm that the information given above is true and correct.
Name J. P. T. Tupper
Position Foreman
Representing The Bradley Oil Company
Address 402 Brown Bldg., Wichita Kansas.

My Commission expires Jan, 23, 1943

Remarks:

Roy Yunker Name _____
OIL & GAS INSPECTOR
Title _____

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 439: QUANTUM MECHANICS

PROBLEM SET 1

DATE: _____

NAME: _____

SECTION: _____

1. A particle of mass m is confined to a one-dimensional infinite potential well of width a . The potential is zero for $0 < x < a$ and infinite elsewhere.

(a) Find the ground state wave function $\psi_1(x)$ and the energy E_1 .

(b) Find the first excited state wave function $\psi_2(x)$ and the energy E_2 .

(c) Calculate the expectation value of the position $\langle x \rangle$ for the ground state.

(d) Calculate the expectation value of the momentum $\langle p \rangle$ for the ground state.

(e) Calculate the expectation value of the energy $\langle E \rangle$ for the ground state.

(f) Calculate the expectation value of the position $\langle x \rangle$ for the first excited state.

(g) Calculate the expectation value of the momentum $\langle p \rangle$ for the first excited state.

(h) Calculate the expectation value of the energy $\langle E \rangle$ for the first excited state.

(i) Calculate the expectation value of the position $\langle x \rangle$ for the second excited state.

(j) Calculate the expectation value of the momentum $\langle p \rangle$ for the second excited state.

(k) Calculate the expectation value of the energy $\langle E \rangle$ for the second excited state.

(l) Calculate the expectation value of the position $\langle x \rangle$ for the third excited state.