

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELL

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-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor 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	X	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			

Odessa, Texas

February 25, 1939

Place

Date

OIL CONSERVATION COMMISSION
Santa Fe, New Mexico.
Gentlemen:

DUPLICATE

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

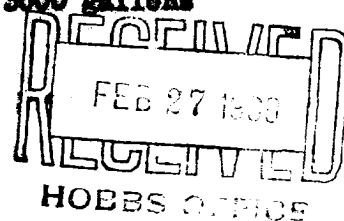
Barnsdall Oil Company State TX Well No. #1 in the
Company or Operator Lease
SE/4 of Sec. 33, T. 16S, R. 36E, N. M. P. M.,
Lovington Field, Field, Lea County

The dates of this work were as follows: February 21, 1939

Notice of intention to do the work was (was ~~not~~) submitted on Form C-102 on February 18 19 39
and approval of the proposed plan was (was ~~not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

No results were obtained by acidising with the 3000 gallons
of acid - Well was dry.



Witnessed by _____

Name

Company

Title

Subscribed and sworn to before me this _____

25th day of February, 19 39

Lawrence Mills
Notary Public

My Commission expires June 1, 1939

I hereby swear or affirm that the information given above is true and correct.

Name EdmondPosition Dist. Supt.

Representing Barnsdall Oil Company
Company or Operator

Address Odessa, Texas - Box #472

Remarks:

R.D. Yarbrough
OIL & GAS INSPECTOR

Title

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 354

PROBLEM SET 10

Due: Friday, November 12, 2010

1. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$.

(b) Find $\langle x \rangle$ for $n = 0, 1$.

2. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}\alpha x^4$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$ using perturbation theory.

(b) Find $\langle x \rangle$ for $n = 0, 1$ using perturbation theory.

3. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}\alpha x^4 + \frac{1}{6}\beta x^6$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$ using perturbation theory.

(b) Find $\langle x \rangle$ for $n = 0, 1$ using perturbation theory.

4. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}\alpha x^4 + \frac{1}{6}\beta x^6 + \frac{1}{8}\gamma x^8$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$ using perturbation theory.

(b) Find $\langle x \rangle$ for $n = 0, 1$ using perturbation theory.

5. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}\alpha x^4 + \frac{1}{6}\beta x^6 + \frac{1}{8}\gamma x^8 + \frac{1}{10}\delta x^{10}$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$ using perturbation theory.

(b) Find $\langle x \rangle$ for $n = 0, 1$ using perturbation theory.

6. (10 points)

A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}\alpha x^4 + \frac{1}{6}\beta x^6 + \frac{1}{8}\gamma x^8 + \frac{1}{10}\delta x^{10} + \frac{1}{12}\epsilon x^{12}$.

(a) Find the energy levels E_n for $n = 0, 1, 2, 3$ using perturbation theory.

(b) Find $\langle x \rangle$ for $n = 0, 1$ using perturbation theory.