

SEP 6 1949  
HOBBS OFFICE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

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 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		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		Report of re-setting formation packer to reduce GOR	X

August 31, 1949

Hobbs, New Mexico

Date

Place

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 \_\_\_\_\_

\_\_\_\_\_ Well No. 1 in the \_\_\_\_\_  
 \_\_\_\_\_ Company or Operator \_\_\_\_\_ Lease \_\_\_\_\_  
SW 1/4 NW 1/4 of Sec. 19, T. 19-S, R. 37-E, N. M. P. M.,  
Monument Field, \_\_\_\_\_ Lee County.

The dates of this work were as follows: August 4th through August 29th, 1949

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

SEE ATTACHED SHEETS

Witnessed by H. G. Croston Phillips Petroleum Company District Chief Clerk  
 Name Company Title

Subscribed and sworn before me this 31  
 day of August 1949  
Th. O. Knight  
 Notary Public

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

Name William L. ...  
 Position District Chief Clerk  
 Representing Phillips Petroleum Company  
 Company or Operator

My commission expires November 26, 1950  
 My commission expires \_\_\_\_\_

Address Box 1605, Hobbs, New Mexico

Remarks:

APPROVED

Date SEP 6 1949

W. L. ...  
 Name  
 DISTRICT CHIEF CLERK

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 311

PROBLEM SET 1

1. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant angular velocity  $\omega$ . Find the centripetal acceleration.

2. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant speed  $v$ . Find the centripetal acceleration.

3. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant angular velocity  $\omega$ . Find the centripetal force.

4. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant speed  $v$ . Find the centripetal force.

5. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant angular velocity  $\omega$ . Find the centripetal force.

6. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant speed  $v$ . Find the centripetal force.

7. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant angular velocity  $\omega$ . Find the centripetal force.

8. A particle of mass  $m$  moves in a circular path of radius  $r$  with constant speed  $v$ . Find the centripetal force.

*Handwritten signature*

PHILLIPS PETROLEUM COMPANY

CULP WELL NO. 1 - TD 3990

DAILY REPORT DETAILED

- 8-4-49 Rigging up double drum unit, preparing to kill well, pull tubing, run electric and caliper logs to locate new formation packer seat to reduce GOR. Two prior tests: Flowed 6 hours, 32/64" choke, 19 barrels oil, no water, GOR 22,180. TP 1480-600#. CP 990#. Shut in 18 hours. Flowed 8 hours 32/64" choke, 27 barrels oil, no water, GOR 19,953. TP 1440-560#. CP 990#.
- 8-5-49 Pumping oil in tubing to kill well.
- 8-6-49 Unable to kill well by pumping oil in tubing because packer prevented circulation. Lane Wells perforated tubing at 3874' with 1/4" hole.
- 8-7-49 Circulated oil - unable to kill well. Spotted 100 barrels salt water through tubing perforations and killed well. Replaced old corroded tubinghead and installed blow out preventer.
- 8-8-49 Pulled tubing and packer. SLM 3990.
- 8-9-49 Ran Schlumber caliper survey and Lane Wells Gamma Ray and Neutron Survey. Bailed 3 hours off bottom, recovered mud and cavings.
- 8-10-49 Cleaned out to bottom. Ran 132 joints 3980', 2 1/2" KUE tubing set at 3990'. Tubing perforations 3940-3989'. Sweet formation production packer set at 3933.
- 8-11-49 Swabbed 2 hours, 37 barrels oil, flowed 12 hours, 7/16" choke, 63.25 barrels oil.
- 8-12-49 Flowed 24 hours, 28/64" choke, 48.67 barrels oil. TP 100-40#.
- 8-13-49 Flowed 24 hours, 45 barrels oil, 4 barrels load water. Average GOR 3500 : 1. Tested 7 hours, 20/64" choke, 8 barrels oil. GOR 818. TP 200#. Flowed 9 hours, 30 barrels oil, open tubing to unload water. Tested 8 hours, 1/2" choke, 9 barrels oil, GOR 5940. TP 25-50#.
- 8-14-49 Flowed 24 hours, 1/2" choke, 48 barrels oil, 4 barrels load water. TP 50-80#. No.GOR test.
- 8-15-49 Flowed 24 hours, 1/2" choke, 35 barrels oil, 2 barrels load water. TP 80-105#. GOR 9870 : 1.
- 8-16-49 Flowed 4 hours, 1/2" choke, no oil, making gas only. TP 120#. Six hours 20/64" choke, no oil, making gas only. TP 450#. Fourteen hours, 20/64" choke, 7 barrels oil, no water. TP 500#. GOR 25,650. Gas increasing. CP 0#.

DAILY REPORT DETAILED

8-1-49  
Flowed 4 hours, 1/2" choke, no oil, making gas only. TP 120#. Six  
hours, 20/64" choke, no oil, making gas only. TP 450#. Fourteen  
hours, 20/64" choke, 7 barrels oil, no water. TP 500#. GOR 22,650.  
TP 30-105#. GOR 8800 : 1.  
8-2-49  
Flowed 24 hours, 1/2" choke, 35 barrels oil, 2 barrels load water.  
TP 20-80#. No GOR test.  
8-3-49  
Flowed 24 hours, 1/2" choke, 48 barrels oil, 4 barrels load water.  
Tested 8 hours, 1/2" choke, 9 barrels oil, GOR 2240. TP 22-50#.  
TP 200#. Flowed 9 hours, 30 barrels oil, open tubing to unload water.  
8500 : 1. Tested 7 hours, 20/64" choke, 8 barrels oil. GOR 813.  
Flowed 24 hours, 48 barrels oil, 4 barrels load water. Average GOR  
Flowed 24 hours, 28/64" choke, 48.67 barrels oil. TP 100-40#. 813.  
8-4-49  
Flowed 2 hours, 37 barrels oil, 2/16" choke, 63.25  
barrels oil.  
8-5-49  
Flowed 2 hours, 37 barrels oil, 2/16" choke, 63.25  
barrels oil. Tubing perforations 3940-3950'. Sweet formation production  
cleaned out to bottom. Ran 132 joints 3980', 2 1/2" EUE tubing set at  
3990'. Survey. Railed 3 hours off bottom, recovered mud and casing.  
8-6-49  
Ran Schlumber caliper survey and Lane Wells Gamma ray and Neutron  
survey. Railed 3 hours off bottom, recovered mud and casing.  
8-7-49  
Railed tubing and packer. SIM 3990.  
8-8-49  
Tubinghead and installed flow out preventer.  
8-9-49  
Through tubing perforations and killed well. Replaced old completed  
circulated oil - unable to kill well. Spotted 100 barrels salt water  
8-10-49  
Unable to kill well by pumping oil in tubing because packer prevented  
circulation. Lane wells perforated tubing at 3874' with 1 1/4" hole.  
8-11-49  
Flowing oil in tubing to kill well.  
8-12-49  
TP 1440-560#. CP 990#. Flowed 8 hours, 27 barrels oil, no water, GOR 19,923.  
no water, GOR 22,180. TP 1480-600#. CP 990#. Shut in 18 hours.  
GOR. Two prior tests: Flowed 6 hours, 22/64" choke, 19 barrels oil,  
bleeding up double drum unit, preparing to kill well, pull tubing, run

DAILY REPORT DETAILED

- 8-17-49 Flowed 8 hours, 1.86 barrels oil, 20/64" choke. TP 500#. GOR 61,000. Shut in 16 hours to pressure up and install intermitter.
- 8-18-49 Shut in 9 hours, TP 1100#. GP 300#. Installed intermitter. Open 4 hours, 10/64" choke, no oil. TP 1020#. Open 11 hours, 5/64" choke, no oil. TP 1050#. GP 0#. Gas volume 58,100.
- 8-19-49 Flowed 24 hours, 5 1/2/64" choke, 2.79 barrels oil. Maximum TP 1080#. Minimum TP 1020#. GP 0#. GOR 32,480.
- 8-20-49 Flowed 24 hours, 5 1/2/64" choke, 1.86 barrels oil, maximum TP 1020#, Minimum 908#. GP 0#. GOR 62,720.
- 8-21-49 Flowed 14 3/4 hours, 10/64" choke, 16.28 barrels oil, maximum TP 765#. Minimum 660#. GP 0#. GOR 10,000.
- 8-22-49 Flowed 20 hours, 11 1/2/64" choke, 12.05 barrels oil, maximum TP 620#, minimum 580#. GP 0#. GOR 22,420. Preparing to pull tubing to lower packer seat.
- 8-23-49 Killed well. Loaded hole with oil, pulled tubing and packer.
- 8-24-49 Ran 132 joints, 3980', 2 1/2" EUE tubing set at 3900'. Tubing perforations 3968-3990'. Packer set, bottom 3966' top 3962'. Swabbed 4 hours, 71 barrels oil. Swabbed down. Shut in 12 hours TP 390#. GP 0#. Open 1/4" choke. Well flowing - no gauge.
- 8-25-49 Flowed 4 hours, 16/64" choke, 19 barrels oil. Flowed 2 hours, 17/64" choke, 6 barrels oil. Flowed 4 hours, 10/64" choke, 13 barrels oil. GOR increasing from 1500 to 3900. Flowed 14 hours, 1/8" choke, 15 barrels oil. GOR 3901. TP 560#. Total 24 hours, 53 barrels oil.
- 8-26-49 Flowed 6 hours, 8/64" choke, 6 barrels oil, TP 530#. GOR 4699. Flowed 18 hours, 10 1/2/64" choke, 20 barrels oil, TP 460#. GP 0#. GOR 5050.
- 8-27-49 Flowed 6 hours, 12/64" choke, 7 barrels oil. GOR 6828. TP 480-390#. Flowed 18 hours, 7.25/64" choke, 6 barrels oil. GOR 14,326. TP 430-630#. GP 0#.
- 8-28-49 Flowed 24 hours, 8.75/64" choke, 16 barrels oil. GOR 8145.
- 8-29-49 Flowed 24 hours, 9.5/64" choke, 19 barrels oil. GOR 7051. TP 520-490#.

DAILY REPORT DETAILED

Flowed 2 hours, 1.50 barrels oil, 1.50% choke, TP 500%. GOR 61,000.  
 Shut in 12 hours to pressure up and install intermitter.

Shut in 9 hours, TP 1100%. CP 300%. Installed intermitter. Open 4  
 hours, 1.0% choke, no oil. TP 1050%. Open 11 hours, 2.5% choke,  
 no oil. TP 1050%. CP 0%. Gas volume 28,100.

Flowed 24 hours, 2.5% choke, 2.50 barrels oil. Maximum TP 1080%.  
 Minimum TP 1050%. CP 0%. GOR 35,480.

Flowed 24 hours, 2.5% choke, 1.50 barrels oil, maximum TP 1050%.  
 Minimum 98%. CP 0%. GOR 68,750.

Flowed 12 1/2 hours, 1.5% choke, 1.50 barrels oil, maximum TP 755%.  
 Minimum 600%. CP 0%. GOR 10,000.

Flowed 20 hours, 1.5% choke, 1.50 barrels oil, maximum TP 650%.  
 Minimum 550%. CP 0%. GOR 22,450. Preparing to pull tubing to lower  
 packer seat.

Killed well. Loaded hole with oil, pulled tubing and packer.

Ran 132 joints, 3880', 2 1/2" EUE tubing set at 3900'. Topping perforations  
 3968-3990'. Packer set, bottom 3968', top 3982'. Swapped 4 hours, VI  
 barrels oil. Swapped down. Shut in 12 hours TP 390%. CP 0%. Open I.V.  
 choke. Well flowing - no surges.

Flowed 4 hours, 1.5% choke, 1.9 barrels oil. Flowed 5 hours, 1.5%  
 choke, 6 barrels oil. Flowed 4 hours, 1.5% choke, 1.3 barrels oil.  
 GOR increasing from 1500 to 3900. Flowed 14 hours, 1.8% choke, 1.5  
 barrels oil. GOR 3901. TP 500%. Total 24 hours, 5.3 barrels oil.

Flowed 6 hours, 1.5% choke, 6 barrels oil, TP 530%. GOR 4522. Flowed  
 18 hours, 1.5% choke, 20 barrels oil, TP 460%. CP 0%. GOR 5050.

Flowed 6 hours, 1.5% choke, 7 barrels oil. GOR 6822. TP 450-390%.  
 Flowed 18 hours, 1.5% choke, 6 barrels oil. GOR 14,326. TP 430-  
 390%. CP 0%.

Flowed 24 hours, 1.5% choke, 1.6 barrels oil. GOR 8125.

Flowed 24 hours, 1.5% choke, 1.9 barrels oil. GOR 7051. TP 520-  
 400%.