

Case No.

533

Application, Transcript,
Small Exhibits, Etc.

Case 533

Prepared from
C-124 - Bottom Hole Pressures

POOL BOTTOM HOLE PRESSURES
Pool Datum Normal Shut-In Time Hrs.

COMPANY	WELL NO.	DATE	PRESS.	TIME	S.I.	GAUGE	GRADIENT	B.H.T. @	B.H.P. @	B.H.P. @	PREVIOUS TEST
LEASE	UNIT S.T.R.	RUN	HRS/MIN.	ELEV.	DEPTH	TBC.	GAUGE DEPTH	GAUGE DEPTH	POOL DATUM	PRESS.	DATE

CASE 533: PROPOSED REVISION OF RULE 302 AND ADOPTION OF FORM C-124 AND
RULE 1123 PERTAINING TO THE FILING OF RESULTS OF BOTTOM-HOLE
PRESSURE TESTS.

RULE 302

The Operator shall make a subsurface pressure test on the discovery well of any new pool hereafter discovered, and shall report the results thereof to the Commission within 30 days after the Completion of such discovery well. On or before December 1st of each calendar year the Commission shall designate the months in which subsurface pressure tests are to be taken in designated pools. Included in the designated list shall be listed the required Shut-In Pressure time and datum of tests to be taken in each pool. In the event a newly discovered pool is not included in the Commission's list the Commission shall issue a supplementary Bottom Hole Pressure Schedule. Tests as designated by the Commission shall only apply to flowing wells in each pool. This test shall be made by a person qualified by both training and experience to make such test, and with an approved subsurface pressure instrument which shall have been calibrated both prior and subsequent to such test against an approved dead weight tester. Provided the prior and subsequent calibrations agree within one percent, the accuracy of the instrument shall be considered acceptable. Unless otherwise designated by the Commission all wells shall remain completely shut in for at least 24 hours prior to the test. In the event a definite datum is not established by the Commission the subsurface determination shall be obtained as close as possible to the midpoint of the productive sand of the reservoir. The report shall be on Form C-124 and shall ~~state the name of the Pool, the pool datum (if established), the name of the operator and the lease, the well number, the wellhead elevation above sea level the date of the test, the total time the well was shut in prior to the test, the subsurface temperature in degrees Fahrenheit at the test depth, the depth in feet at which the subsurface pressure test was made, the observed pressure in pounds per square inch gauge at the test depth, the corrected pressure computed from applying to the observed pressure the appropriate corrections for calibration, temperature and differences in depth between test depth and reservoir datum plane and any other information as required by Form C-124.~~ state the name of the Pool, the pool datum (if established), the name of the operator and the lease, the well number, the wellhead elevation above sea level the date of the test, the total time the well was shut in prior to the test, the subsurface temperature in degrees Fahrenheit at the test depth, the depth in feet at which the subsurface pressure test was made, the observed pressure in pounds per square inch gauge at the test depth, the corrected pressure computed from applying to the observed pressure the appropriate corrections for calibration, temperature and differences in depth between test depth and reservoir datum plane and any other information as required by Form C-124.

RULE 1123:

BOTTOM HOLE PRESSURE TESTS (Form C-124)

Form C-124 shall be submitted in triplicate to the Oil Conservation Commission, Santa Fe, New Mexico, and shall be used to report Bottom Hole Pressures as required under the provisions of Rule 302.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 533
Order No. R-329

THE APPLICATION OF THE COMMISSION ON
ITS OWN MOTION FOR AN ORDER REVISING
RULE 302 OF THE RULES AND REGULATIONS,
AND PROVIDING FOR THE ADOPTION OF FORM
C-124 AND RULE 1123 PERTAINING TO THE
FILING OF RESULTS OF BOTTOM-HOLE PRESSURE
TESTS.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on May 19, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this ^{10th} day of June, 1953, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That there is need for revision and enlargement of Rule 302 of the Commission's Rules and Regulations setting forth procedures for the taking and reporting of bottom-hole pressure tests.

(3) That the use of Form C-103 in reporting bottom-hole pressure surveys, as currently stipulated by Commission rules, is inadequate, and that a new form providing for more detailed reporting of such tests should be furnished by the Commission for use of operators.

IT IS THEREFORE ORDERED:

(1) That the application of the Oil Conservation Commission be, and the same hereby is approved, as set forth below.

(2) That Section 'E' (Oil Production Operating Practices) of the Commission's Rules and Regulations be altered in order that Rule 302 may read as follows:

RULE 302: The operator shall make a subsurface pressure test on the discovery well of any new pool hereafter discovered, and shall report the results thereof to the Commission within 30 days after the completion of such discovery well. On or before December 1st of each calendar year the Commission shall designate the months in which subsurface pressure tests shall be taken in designated pools. Included in the designated list shall be listed the required Shut-In Pressure time and datum of tests to be taken in each pool. In the event a newly discovered pool is not included in the Commission's list the Commission shall issue a supplementary Bottom Hole

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Order No. R-329

Pressure Schedule. Tests as designated by the Commission shall only apply to flowing wells in each pool. This test shall be made by a person qualified by both training and experience to make such test, and with an approved subsurface pressure instrument which shall have been calibrated both prior and subsequent to such test against an approved dead-weight tester. Provided the prior and subsequent calibrations agree within one percent, the accuracy of the instrument shall be considered acceptable. Unless otherwise designated by the Commission all wells shall remain completely shut in for at least 24 hours prior to the test. In the event a definite datum is not established by the Commission the subsurface determination shall be obtained as close as possible to the mid-point of the productive sand of the reservoir. The report shall be on Form C-124 and shall state the name of the pool, the pool datum (if established), the name of the operator and lease, the well number, the wellhead elevation above sea level, the date of the test, the total time the well was shut in prior to the test, the subsurface temperature in degrees Fahrenheit at the test depth, the depth in feet at which the subsurface pressure test was made, the observed pressure in pounds per square inch gauge (corrected for calibration and temperature), the corrected pressure computed from applying to the observed pressure the appropriate correction for difference in test depth and reservoir datum plane and any other information as required by Form C-124.

(3) That Section 'M' (Reports) of the Commission's Rules and Regulations be extended to include a new Rule 1123 providing for Form C-124, said rule to read as follows:

RULE 1123: BOTTOM-HOLE PRESSURE TESTS (Form C-124)
Form C-124 shall be submitted in triplicate to the Oil Conservation Commission, Santa Fe, New Mexico, and shall be used to report bottom-hole pressures as required under the provisions of Rule 302.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, Chairman



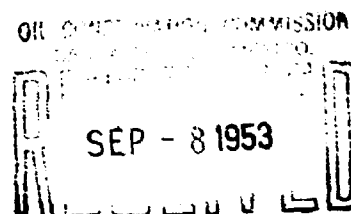
E. S. WALKER, Member



R. R. SPURRIER, Secretary

S E A L

N. M. OIL & GAS ENGINEERING COMMITTEE
BOX 127
HOBBS, NEW MEXICO



September 2, 1953

Mr. W. B. Macey
New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Dear Bill:

I would like to call to your attention that on your Form C-124 you have no column for Bottom Hole Pressure at Pool Datum.

I believe in most cases it is more desirable to have comparable pressure all corrected to a common point so the pressures will be on an equal basis.

I think the column on the Form C-124 headed B.H.T. @ Gauge Depth could be omitted and space provided at the top of the form for an average pool temperature. A few degrees change in temperature from well to well has very little effect on the Bottom Hole Pressure.

Am enclosing a form we have used for the last couple of years that works very well.

Yours very truly,


George Hirschfeld

GH/no

Encl.

CASE 533: PROPOSED REVISION OF RULE 302 AND ADOPTION OF
FORM C-124 AND RULE 1123 PERTAINING TO THE FILING
OF RESULTS OF BOTTOM-HOLE PRESSURE TESTS.

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RULE 1123: BOTTOM HOLE PRESSURE TESTS (Form C-124)

Form C-124 shall be submitted in triplicate to the Oil Conservation Commission, Santa Fe, New Mexico, and shall be used to report Bottom Hole Pressures as required under the provisions of Rule 302.

Proposed Form
C-124 - Bottom Hole Pressures

POOL BOTTOM HOLE PRESSURES

[illegible][illegible]

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO



CASE 533: Application of Commission on its own motion for an order revising Rule 122 of the Rules of Regulations, and providing for the adoption of Form C-124 and Rule 1123 pertaining to the filing of results of bottom-hole pressure tests.

NOTARIAL CERTIFICATE

NOTARY PUBLIC

BEFORE:

Notary Public
E. E. Greeson
Notary Public

STATE OF NEW MEXICO)

ss

COUNTY OF BERNALILLO

I HEREBY CERTIFY That the within transcript of proceedings before the Oil Conservation Commission is a true record of the same to the best of my knowledge, skill, and ability.

DONE at Albuquerque, N. M., this 2nd day of
June 1956.

My Comm. Ex.:
August 4, 1956

E. E. Greeson

E. E. Greeson
Notary - Reporter

COMMISSIONER SPURRIER: The next case on the docket is No. 533.

(Mr. Graham reads the call of the case.)

MR. MACEY: Mr. Spurrier, I think all the people present have a copy of the proposed revision.

Basically, all the rule does is provide for a form that the operator should use in submitting bottom-hole pressure surveys. We don't have a suitable form at the present time. The one we are using, the Form C-103, is totally inadequate. It also provides, the rule provides, the Commission at the beginning of December should designate those fields during the next calendar year that bottomhole pressure tests shall be taken. In that way any marginal fields or sands in which pressure tests are not necessary can be deleted from that list from year to year, as the Commission sees fit.

Incidentally, this form was drawn up on the recommendation of some of the engineers working for the companies in Hobbs. They worked quite a while on it, and I think they have an excellent form. The only possible change in the proposed rule, in the fifth line where it says "Sub-surface pressure tests are to be taken in designated pools," I think should be changed to read "The months in which sub-surface pressure tests shall be taken in designated pools." That is upon advice of counsel here. It makes it more com-

pulsory.

MR. GRAHAM: You think "shall be" instead of "are" will make it more compulsory?

MR. MACEY: That's right.

COMMISSIONER SPURRIER: Anyone else have a comment on that form? Did I understand each one has a copy and is satisfied with the form the way it is proposed?

MR. SHAVER: Charles Shaver, representing Humble Oil & Refining Company.

We will respectfully urge adoption of this proposed revision in the form.

COMMISSIONER SPURRIER: Anyone else? If not, --

MR. SPELLMAN: D. K. Spellman, of the Ohio Oil Company.

Mr. Spurrier, if this case is not going to be continued to next month, perhaps maybe I could throw in a comment.

I count up here five lines from the bottom, where it starts out, after a comma in the middle of the line, "the observed pressure in pounds per square inch guage at the test depth" -- continuing, then, the proposal states "the corrected pressure computed from applying to the observed pressure the appropriate corrections for calibration, temperature and differences in depth."

I believe for the sake of making the form more use-

ful, this observed pressure should already have in it the corrections for temperature. Anyone then referring to the form could observe the gradient used by the operator in correcting his observed pressure to data pressure; otherwise, we think it is a fine rule.

COMMISSIONER SPURRIER: Anyone else? If not, the case will be taken under advisement and we will move on to Case No. 534.

MR. WALKER: One word, sir.

COMMISSIONER SPURRIER: You have something in Case 533?

MR. WALKER: Yes, sir. We just like the general idea for this form and would like to urge its adoption.

_____o_____

MR. MACEY: I would like to introduce these two exhibits in Case No. 533.

COMMISSIONER SPURRIER: Without objection, they will be received.

_____o_____

**CASE 533: PROPOSED REVISION OF RULE 302 AND ADOPTION OF
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Case 533

Proposed Form
C-124 - Bottom Hole Pressures

POOL BOTTOM HOLE PRESSURES

Pool Datum Nominal Shut-in Time Hrs.

COMPANY	WELL NO.	DATE	PRESS.	TIME S. I.	GAUGE	GRADIENT	B.H.T. @	B.H.P. @	B.H.P. @	PREVIOUS TEST
LEASE	UNIT S.T.R.	RUN	IBS/MIN.	ELEV. DEPTH	TBG.	GAUGE DEPTH	GAUGE DEPTH	POOL DATUM	PRESS.	DATE

Q. Intern

Nominal Shut-In Time

Average Soil Temperature

Q. Intern

U

FORM C-124

BOTTOM HOLE PRESSURES

POOL, BOTTOM HOLE PRESSURES

[illegible]