

Case No.

1540

Application, Transcript,
Small Exhibits, Etc.

Campbell application for
1951 & 1952
for all work

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

November 11, 1958

C
O
P
Y

**Mr. E. P. Campbell
902 Lubbock National Bank Bldg.
Lubbock, Texas**

Dear Mr. Campbell:

We enclose two copies of Order R-1281 issued November 5, 1958, by the Oil Conservation Commission in Case 1540, which was heard on October 22nd at Santa Fe before an examiner.

Very truly yours,

**A. L. Porter, Jr.
Secretary - Director**

**bp
Encls.**

**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. 1540
Order No. E-1281**

**APPLICATION OF E. P. CAMPBELL FOR AN
EXCEPTION TO RULE 565 OF THE COMMISSION
RULES AND REGULATIONS TO PROVIDE FOR
THE ASSIGNMENT OF AN ALLOWABLE PROPORTION-
AL FACTOR OF 1.33 FOR AN UNDESIGNATED OIL
POOL IN THE ABO FORMATION IN EDDY COUNTY,
NEW MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 22, 1958, at Santa Fe, New Mexico, before Elvis A. Uts, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 24 day of November, 1958, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Uts, 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 the applicant, E. P. Campbell, is the owner and operator of the Cockerham No. 1 Well, located in the NE/4 NE/4 of Section 34, Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico.

(3) That said Cockerham No. 1 Well was deepened from 4882 feet to 5625 feet and completed as the discovery well for an undesignated oil pool in the Abo formation in Eddy County, New Mexico.

(4) That the depth of the casing shoe is 4205 feet; however, the top of the Abo pay in said Cockerham No. 1 Well is at approximately 5280 feet and all production from said well is from below this point.

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Case No. 1540
Order No. E-1281

(5) That applicant seeks an order providing for the assignment of an allowable proportional factor of 1.33 for said Cockerham No. 1 Well on the ground that 4½ casing was set and cemented in said well at 4205 feet prior to deepening operations.

(6) That the open hole interval above the top of the Abo formation is of such an impervious nature as to preclude the likelihood that production will escape into said interval.

(7) That approval of the subject application will not cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That applicant's Cockerham No. 1 Well, located in the NE/4 NE/4 of Section 34, Township 18 South, Range 28 East, FHPM, Eddy County, New Mexico, and completed as the discovery well for an undesignated oil pool in the Abo formation, be and the same is hereby assigned an allowable proportional factor of 1.33.

(2) That any and all wells hereafter drilled to the same common source of supply as the said Cockerham No. 1 Well shall also be assigned an allowable proportional factor of 1.33.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E. L. Mechem

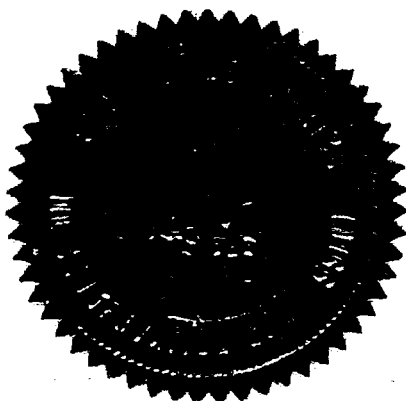
EDWIN L. MECHEM, Chairman

Murray E. Morgan

MURRAY E. MORGAN, Member

A. L. Porter, Jr.

A. L. PORTER, Jr., Member & Secretary



TELEPHONE
PD 2-0181

E. P. CAMPBELL
MAIL DEPT. 680
NATIONAL BANK BLDG.
LUBBOCK, TEXAS

1958 OCT 1 1958
September 12, 1958

Case 1540
Exon hearing

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Re: Exception to Rule 505
Proration

Gentlemen:

Application is hereby made for an exception to Rule 505 of the New Mexico Oil Conservation Commission Rules and Regulations to apply to the E. P. Campbell No. 1 Cockerham located in the NE/4 NE/4 NE/4 of Section 34, Township 18 South, Range 26 East, Eddy County, New Mexico.

This well was deepened from 4882 feet to 5626 feet and completed as a new pool discovery from the Abo formation. Although 4 1/2 inch casing was set and cemented at 4205 feet prior to the deepening operations, the top of the Abo pay is at 5280 feet. It is felt that this new pool should be entitled to an assigned allowable factor of 1.33, the proportional factor for a pool with a depth range between 5000 feet and 6000 feet and should not be limited by a factor of 1.00 based upon the depth of the casing shoe.

Respectfully submitted,

E. P. CAMPBELL

By: Guy A. Swartz
Guy A. Swartz, Geologist

GAS:bs

cc: Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

Oil Conservation Commission
321 Carper Building
Artesia, New Mexico

Stanley Jones
101 South Canal
Carlsbad, New Mexico

Docket mailed
10-8-58 B P

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 10-23-58

HEARING DATE 10-22-58

CASE NO. _____

My recommendations for an order in the above numbered case(s) are as follows:

1. approve E. P. Campbell's application for ~~and~~ exception to NMCC Rule 505 to allow the use of the top of the pay zone ~~and~~ ^(add) instead of the casing shoe to determine the depth factors to be used in determining the wells allowable.
2. The exception should be allowed only because of the small 4 1/2 casing set at 4200 ft. and the fact that the open hole is very tight & hard Limestone. Also the well was deepened, hence economic waste by not allowing it.


Staff Member

DOCKET: EXAMINER HEARING OCTOBER 22, 1958

Oil Conservation Commission 9 a.m. Mabry Hall, State Capitol, Santa Fe

The following cases will be heard before Elvis A. Utz, Examiner:

- CASE 962: Application of Humble Oil & Refining Company for the amendment of a unit agreement. Applicant, in the above-styled cause, seeks an order amending the South Four Lakes Unit Agreement approved by Order R-710 to enlarge the unit area to include the N/2 SW/4 of Section 1, Township 12 South, Range 34 East, Lea County, New Mexico.
- CASE 1527: Application of Tennessee Gas Transmission Company for permission to commingle the oil produced from two separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the oil produced from its State A. A. Kennitz "B" Well No. 5, located in the SW/4 NW/4 of Section 25, Township 16 South, Range 33 East, Lea County, New Mexico, from the Kennitz-Wolfcamp Pool and an undesignated Pennsylvanian (Cisco) pool. Applicant proposes to separately meter the production from each zone prior to commingling.
- CASE 1528: Application of Tennessee Gas Transmission Company to commingle the production from two separate oil pools from three of its state leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the oil produced from the Kennitz-Wolfcamp and Kennitz-Cisco Pools from the wells on its State "B", State "C" and State "D" Leases located in Sections 21 and 28, Township 16 South, Range 34 East, Lea County, New Mexico.
- CASE 1529: Application of Kersey & Company for permission to commingle production from two separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Grayburg-Jackson Pool and the Fren Pool from two wells located on the SE/4 SW/4 of Section 16, Township 17 South, Range 31 East, Eddy County, New Mexico. Applicant does not propose to meter the production from each pool.
- CASE 1530: Application of Rice Engineering & Operating, Inc. for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water through its E-M-E SWD Well No. A-32 to be located 1320 feet from the North and East lines of Section 32, Township 21 South, Range 36 East, Lea County, New Mexico. Applicant proposes to inject the produced salt water into the San Andres formation in the interval from 4250 feet to 4600 feet.

- CASE 1531: Application of Rice Engineering & Operating, Inc. for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water through Amerada Petroleum Corporation's Adkins Well No. 2, located 990 feet from the South line and 330 feet from the West line of Section 5, Township 20 South, Range 37 East, Lea County, New Mexico. Applicant proposes to inject the produced salt water into the San Andres formation in the interval from 4490 feet to 4950 feet.
- CASE 1532: Application of Sunray Mid-Continent Oil Company for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water through its Hobbs "G" Well No. 1, located 1980 feet from the North and West lines of Section 36, Township 9 South, Range 33 East, Lea County, New Mexico. Applicant proposes to inject the produced salt water through the well bore into the Pennsylvanian formation in the interval from 9834 feet to 9865 feet.
- CASE 1533: Application of El Paso Natural Gas Products Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Frontier No. 1-B Well, located 890 feet from the South line and 890 feet from the East line of Section 9, Township 27 North, Range 11 West, San Juan County, New Mexico, in such a manner as to permit the production of oil from an undesignated Gallup oil pool and the production of gas from an undesignated Dakota gas pool through parallel strings of tubing.
- CASE 1534: Application of Zapata Petroleum Corporation for permission to commingle production from nine non-contiguous state leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from nine separate state leases in the Vacuum Pool, all in Townships 17 and 18 South, Range 35 East, Lea County, New Mexico.
- CASE 1535: Application of Carper Drilling Company for permission to commingle the oil produced from two separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from three wells completed in the Corbin Pool and one well completed in the Maljamar Pool, all on its Wyatt lease in Sections 33 and 34, Township 17 South, Range 33 East, and Section 5, Township 18 South, Range 33 East, Lea County, New Mexico, and to ascertain the production from each well by means of periodic tests.
- CASE 1536: Application of Shell Oil Company for permission to commingle the oil produced from four separate leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from four separate state leases in Sections 8 and 9, Township 16 South, Range 34 East, Hume-Queen Pool, Lea County, New Mexico.

CASE 1537: Application of Pure Oil Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its South Vacuum Unit No. 2-35 Well, located 1980 feet from the South line and 660 feet from the East line of Section 35, Township 18 South, Range 35 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the South Vacuum-Devonian Pool and gas from an undesignated McKee gas pool through parallel strings of tubing.

CASE 1538: Application of Aztec Oil & Gas Company for the assignment of minimum allowables to certain gas wells in the Fulcher Kutz-Pictured Cliffs Gas Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order assigning minimum allowables to the following described gas wells in the Fulcher Kutz-Pictured Cliffs Gas Pool in order to prevent premature abandonment of said wells:

Coxsens No. 3 and No. 4 Wells, both in Section 20, Township 29 North, Range 11 West;
Hart No. 1 Well, Section 11, Township 29 North, Range 12 West;
Holder No. 1 Well, Section 29, Township 30 North, Range 12 West;
Cornell No. 3 and No. 4 Wells, both in Section 12, Township 29 North, Range 12 West;

all in San Juan County, New Mexico.

CASE 1539: Application of T. J. Sivley for an exception to the casing requirements for the potash-oil area in Eddy and Lea Counties, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing an exception to the casing requirements for the potash-oil area as set forth in Order R-111-A for its Federal-Silver No. 1, an exploratory well to be located 1980 feet from the South and East lines of Section 28, Township 20 South, Range 34 East, Lea County, New Mexico. Applicant proposes to drill with cable tools to the Yates formation. The casing program of applicant is as follows:

13-3/8" Casing in top of red bed at approximately 70 feet.

10-3/4" Casing as cave string to about 700 feet.

8-5/8" Casing, this being the water shutoff string to approximately 1250', but in any event below water.

5-1/2" Casing to be set at a point selected by operator above pay zone expected to be encountered at 3625', but in no event to exceed a depth greater than 600 feet below the base of salt.

That the applicant should be permitted to pull all casing except the 5-1/2" production string in the event that commercial oil or gas is found.

CASE 1540: Application of E. P. Campbell for an exception to Rule 505 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order granting an exception to Rule 505 of the Commission Rules and Regulations and assigning an allowable proportional factor of 1.33 for the oil pool in the Abo formation discovered by applicant's Cockerham No. 1 Well, NE/4 NE/4 Section 34, Township 18 South, Range 28 East, Eddy County, New Mexico, even though the depth of the casing shoe is 4205 feet. The top of the Abo pay is at approximately 5280 feet in the above-described well.

CONTINUED CASE

CASE 1516: Application of El Paso Natural Gas Company for two non-standard gas proration units and for the approval of one unorthodox gas well location. Applicant, in the above-styled cause, seeks an order establishing a 120-acre non-standard gas proration unit in the Jalmat Gas Pool consisting of the N/2 SW/4 and the SW/4 SW/4 of Section 4, Township 25 South, Range 37 East, said unit to be dedicated to the applicant's Wells Federal No. 3 Well located 1980 feet from the South and West lines of said Section 4. Applicant further seeks the establishment of a 200-acre non-standard gas proration unit in the Jalmat Gas Pool consisting of the SE/4 SW/4 of Section 4 and the NW/4 of Section 9, Township 25 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to the applicant's Wells Federal No. 11 Well located 430 feet from the South line and 2317 feet from the West line of said Section 4. Applicant further seeks approval of the unorthodox gas well location of the said Wells Federal No. 11 Well.

NEW MEXICO OIL CONSERVATION COMMISSION
FORM C-124
(Rev. 9-53)

COMPANY E. P. CAMPBELL BOTTOM HOLE PRESSURES Dayton-Abo (pending) POOL

POOL DATUM -2145' NOMINAL SHUT-IN TIME 96 HRS: AVERAGE POOL TEMPERATURE 109 °F

LEASE	WELL NO.	UNIT	S-T-R	DATE		TIME		D.F. GAUGE		GRADIENT TBG.	B.H.P. @ GAUGE DEPTH		B.H.P. @ POOL DATUM		PREVIOUS TEST	
				PRESS. RUN	HRS	S.I. MINS.	hrs.	ELEV.	DEPTH							
Cocketham	1	A	34-18-26	9-27-58		96	hrs.	3334'	5459'	.440	1798		1798		None - New Pool Discovery	

LAND OFFICE OCC
RECEIVED 21 PM 1-1-52

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

Case No. 1540

TRANSCRIPT OF HEARING

October 22, 1958
DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone Chapel 3-6691

BEFORE THE
OIL CONSERVATION COMMISSION
October 22, 1958

-----:
IN THE MATTER OF: :

Application of E. P. Campbell for an exception to :
Rule 505 of the Commission Rules and Regulations. :
Applicant, in the above-styled cause, seeks an order: :
granting an exception to Rule 505 of the Commission :
Rules and Regulations and assigning an allowable :
proportional factor of 1.33 for the oil pool in :Case 1540
the Abo formation discovered by applicant's :
Cockerham No. 1 Well, NE/4 NE/4 Section 34, Town- :
ship 18 South, Range 26 East, Eddy County, New :
Mexico, even though the depth of the casing shoe :
is 4205 feet. The top of the Abo pay is at :
approximately 5280 feet in the above-described :
well. :
-----:

Mabry Hall
Santa Fe, New Mexico

BEFORE:

Elvis A. Utz, Examiner.

MR. UTZ: The hearing will come to order, please.

The next case on the docket will be 1540.

MR. PAYNE: Case 1540, "Application of E. P. Campbell for
an exception to Rule 505 of the Commission Rules and Regulations."

MR. SWARTZ: I am Guy Swartz of Roswell, New Mexico
representing Mr. E. P. Campbell in this case. We do not have
legal counsel in this case and I am the only witness.

(Witness sworn in).

GUY A. SWARTZ

called as a witness, having first been duly sworn, testified as

follows:

DIRECT EXAMINATION

BY MR. PAYNE:

Q Will you please state your name and position again?

MR. UTZ: Are there other appearances in this case?

(No response).

MR. UTZ: Continue.

A My name is Guy A. Swartz and I am a consultant geologist in Roswell. I am under contract with Mr. E. P. Campbell from Lubbock, Texas.

Q Have you previously testified before this Commission as an expert witness, Mr. Swartz?

A Yes sir, I have testified on behalf of Gulf Oil Corporation and several industry committees in the past two years.

Q Are you familiar with Mr. Campbell's application in this case?

A Yes, sir.

MR. PAYNE: Are the witness' qualifications acceptable?

MR. UTZ: Yes, sir.

Q (By Mr. Payne) Please proceed, Mr. Swartz.

A E. P. Campbell in this case is seeking an order granting an exception to Rule 505 of the Oil Conservation Commission Rules and Regulations to assign an allowable proportion factor of 1.33 for the new oil pool in the Abo formation discovered by Mr. E. P. Campbell's Number 1 Cockerham.

This well is located 70 feet from the road and east
line of Section 24, Township 24 South, Range 24 East, Red County,
New Mexico. Rule 40 regarding oil production states: "The depth
of the casing shoe or the top perforation in the casing, which-
ever is the higher in the first well completed in the pool, deter-
mines the depth classification for the pool. Wells less than
5,000 feet in depth are assigned a proportionate factor of 1 and
wells between 5,000 and 7,000 feet are assigned a proportionate
factor of 1.33."

The top of the ABC pay in this well is approximately 4000
feet while the depth of the casing shoe is 4200 feet. Application
was made September 29, 1958 for an exception to this rule.

Exhibit Number 1 is a radio-activity log which I have
prepared from two separate surveys on this well and illustrates
the position of the casing shoe, the open-hole interval, top of
pay and total depth.

The subject well was originally drilled to a depth of 3803
feet by the Lubbock Machine Company with cable tools between
the dates of 4/9/51 and 2/15/52 and was completed as a dry hole
April of 1952. The well was subsequently drilled to a depth of
4882 feet between the dates of 12/14/56 and 1/31/57 by Jones and
McArthur. During the latter deepening operations, a six and a half
inch hole was carried to a depth of 4282 feet and four and a half
inch, nine and a half pound casing was set at 4200 feet with 500
sacks.

I believe there's a temperature survey on file with the Commission which indicated the top of the cement behind the four and a half inch casing at approximately 150 feet from the surface.

In the later operations, the annular space was filled to the surface with cement. The well was perforated at that time, completed, and tested in eleven different intervals between 940 feet and 4,045 feet, and in May--I'm sorry, in January 31, 1957, the test was temporarily abandoned.

On May 1st, 1958, the well was deepened to a total depth of 5626 feet drilling a three and seven eighths inch hole into the Abo formation. After securing production from the Abo formation, a bridge plug was set at 4,000 feet near the base of the four and a half inch casing, and on July 14, 1958, all perforations in the four and a half inch casing were squeezed with a total of a hundred sacks of cement and fifty cubic feet of stratocreat.

After testing the casing on 9/18/58 with 1,000 pounds of pressure, tubing with perforations from 5560 to 64 feet was set below a Gibson retrievable hook wall packer at 4100 feet. A potential was taken September the 19th, 1958 for 84 barrels of oil per day.

The top of the pay, although it is not readily apparent by examination of the radio-activity log, was picked primarily by samples and drilling time. The pay consists of brown granular dolomites typical of Abo shelf series and underlies a section of hard type Bone Spring limestone. Although some porosity is indicated

by the neutron survey in the Bone Spring section, this is attributed to the high percentage of argillaceous material existing in the limestone and this fact is readily verified by the gamma ray on the radio-activity survey.

No shows were indicated in this upper section above the top of the pay either by testing or by visual analysis. We took a swab test from 4995 to 5265 feet and this also indicated no shows. The basis for taking that test was an oil contamination in the samples. Although this well has an unusual amount of open hole section, it is believed that the well conforms to Rule 107 which requires that all oil, gas and water stratus be sealed off from a producing pay zone.

The sample cuttings above the depth of 4882 feet were not examined by myself; however, approximately two to three hundred feet of Bone Spring core still remains on the location and I just don't have any record of the interval that core came from, and the samples and the coring interval were unavailable to myself.

Although the two formations, the Bone Spring and the Abo, are present in the open hole, both formations are lateral equivalents of each other and the pay is actually made up of both formations. This well is located in a transition zone between shelf and basin sedimentary conditions.

The reason an exception is being asked in this instance is because it is felt that all regulatory rules of the Commission have been met and the long open hole section has been found to be barren.

If the size of the casing already in the hole prior to the deepening operation had been larger, we would have set a casing on the bottom and there are--we, at this time, have several other wells drilling in that area and our intention is to set casing on bottom.

I would like to offer Exhibit 1 in evidence if there are no objections, and that concludes my testimony if there are no questions.

MR. UTZ: Without objection, Exhibit Number 1 will be accepted.

Are there any further questions of the witness?

(No response).

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Swartz, are you tubing this well?

A Yes sir, the tubing has been set at 5560 with four feet of tubing perforations from 5560 to 64.

Q What size is that?

A That's two and three eighths inch, N-80 tubing, four and a half pounds.

Q Do you feel from your experience of this open hole, that it will be subject to caving?

A No sir, that limestone is very hard and brittle. It actually has no shale characteristics other than the amount of radioactivity. If the limestone is completely dissolved in acid, there is quite an arenaceous residue left, but in its present condition

in the well bore, it is very chrystalline, fine and chrystalline.

Q The main reason you did this is because of the size of the previous casing in the hole, was it not?

A Yes sir, the size of the casing determined the open hole diameter below and that was three and seven eighths, and it would have been very difficult to cement a string of three-inch casing or it would have had to have been hyd oil and I felt like the amount of cement behind the casing to be run to bottom would have been too thin to give any kind of strength. They don't make centralizers small enough to centralize that type of casing and its just been a mechanical problem all the way around.

Q Future wells you will set on top of the pay?

A Yes sir, more than likely we will set on through to total depth and probably perforate. That, at present, are our intentions.

MR. UTZ: Are there other questions of the witness?

CROSS EXAMINATION

BY MR. FISCHER:

Q Mr. Swartz, do you feel that this Bone Spring lime up above here and between your Abo and your casing shelf, is such that it is not going to develop any oil or gas, is it, sir?

A No sir, I don't believe it will. The lime is relatively tight, it is from the core that I have seen down there through that section. It offered no permeability and no porosity either and if there are any zones of porosity existing in that open hole,

section, I am unaware of them at this time.

Q Is it an organic lime?

A It is black.

Q Is it a relatively light lime?

A No sir, it is an argillaceous limestone.

MR. FISCHER: That's all I have.

MR. UTZ: Any other questions?

(No response).

MR. UTZ: If not, the witness may be excused.

(Witness excused).

MR. UTZ: Any statements to be made in this case?

(No response).

MR. UTZ: If not, the case will be taken under advisement.

The hearing is adjourned.

STATE OF NEW MEXICO)
 : ss
COUNTY OF BERNALILLO)

I, JERRY MARTINEZ, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me in stenotype and reduced to typewritten transcript by me, and that the same is a true and correct record, to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this 25th day of October, 1958,
in the City of Albuquerque, County of Bernalillo, State of New
Mexico.

James H. Smith
Notary Public

My Commission Expires:
January 24, 1962

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1540 heard by me on Oct. 22, 1958.

Smith, Examiner
New Mexico Oil Conservation Commission