

CASE 3334: Application of FELMONT
OIL CORP. for an unorthodox
location, Roosevelt County.

CASE NO.
3334

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2008
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

December 3, 1965

Mr. Jack Russell
Attorney at Law
Post Office Drawer 640
Roswell, New Mexico

Re: Case No. 3334
Order No. R-3003
Applicant:

Felmont Oil Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other

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. 3334
Order No. R-3003

APPLICATION OF FELMONT OIL CORPORATION
FOR AN UNORTHODOX LOCATION, ROOSEVELT
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 23, 1965, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 3rd day of December, 1965, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Felmont Oil Corporation, seeks an exception to the Special Rules and Regulations for the Bluit-San Andres Gas Pool to drill its Federal 9 Well No. 1 at an unorthodox location 990 feet from the North line and 990 feet from the East line of Section 9, Township 8 South, Range 37 East, NMPM, Roosevelt County, New Mexico.

(3) That the drilling of a well at a standard location in the E/2 of said Section 9 is not practicable due to the risk of encountering mechanical problems caused by an abandoned Bluit-San Andres gas well in the SE/4 of said Section 9.

(4) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Bluit-San Andres Gas Pool, will prevent

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CASE No. 3334
Order No. R-3003

the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Felmont Oil Corporation, is hereby granted an exception to the well location requirements of the Special Rules and Regulations governing the Bluit-San Andres Gas Pool and is hereby authorized to drill its Federal 9 Well No. 1 at an unorthodox location 990 feet from the North line and 990 feet from the East line of Section 9, Township 8 South, Range 37 East, NMDM, Roosevelt County, New Mexico.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

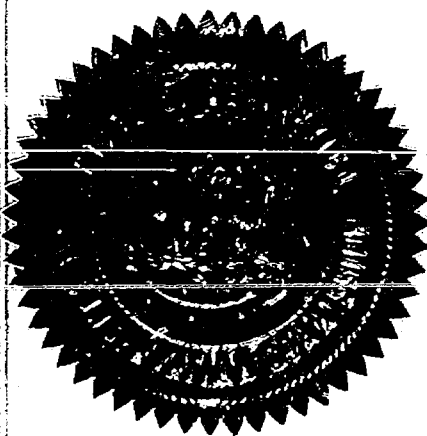
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


JACK M. CAMPBELL, Chairman


GUYTON B. HAYS, Member


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



esr/

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 11/24/65

CASE 2334

Hearing Date 9 am 11/23/65

DOJ @ SF

My recommendations for an order in the above numbered cases are as follows:

Enter an order approving an
unorthodox gas well location for
Felmant Oil Corporation in the
Blunt - San Andres Gas Pool,
Roosevelt County, New Mexico,
as follows:

Federal 9 Well No 1 to be
located 990' FNL and 990'
FEL of Sec 9, T8S, R37E,

Original appl was for loc 660 FNL
and 660 FEL but was amended
at the hearing


Staff Member

Docket No. 33-65

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 23, 1965

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or
Elvis A. Utz, Alternate Examiner:

CASE 3294 (Continued from the September 22, 1965, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Harold J. Sechler, dba S. & S. Oil Producers, and all other interested parties to show cause why the Bond Well No. 1 located in the SW/4 NE/4 of Section 17, Township 9 North, Range 14 West, Valencia County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 3333: Application of William A. and Edward R. Hudson for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Queen formation through six wells in Sections 10, 11, and 15, Township 18 South, Range 31 East, Shugart Yates-Seven Rivers-Queen-Grayburg Pool, Eddy County, New Mexico.

CASE 3334: Application of Felmont Oil Corporation for an unorthodox location, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Federal 9 Well No. 1 at an unorthodox location 660 feet from the North and East lines of Section 9, Township 8 South, Range 37 East, Bluitt-San Andres Gas Pool, Roosevelt County, New Mexico.

CASE 3335: Application of Monsanto Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location 1200 feet from the South line and 660 feet from the West line of Section 32, Township 16 South, Range 33 East, West Kemnitz-Lower Wolfcamp Pool, Lea County, New Mexico.

CASE 3336: Application of Shell Oil Company for special rules for the East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the East Hightower-Upper Pennsylvanian Pool in Section 25, Township 12 South, Range 33 East, Lea County, New Mexico, including a provision for 80-acre proration units.

CASE 3337: Application of Shell Oil Company for the creation of a new gas pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Morrow production in Sections 3 and 4, Township 22 South, Range 34 East, and Section 34, Township 21 South, Range 34 East, Lea County, New Mexico, and the establishment of special pool rules, including a provision for 640-acre spacing units.

November 23, 1965, Examiner Hearing

- CASE 3338: Application of Socony-Mobil Oil Company, Inc. for pool-lease commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Glorieta, Blinebry, Upper-Pennsylvanian, Lower-Pennsylvanian, Devonian, Abo and Wolfcamp production from its State Bridges (Military Institute) Lease in Section 25, Township 17 South, Range 34 East, and from its State Bridges (Common School) Lease in Sections 3, 10 through 15, 22, 23, 24, and 26 and 27, Township 17 South, Range 34 East, Lea County, New Mexico, after separately metering the Military Institute production, allocating production to each lease by means of the subtraction method.
- CASE 3339: Application of Socony-Mobil Oil Company, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Denton North Wolfcamp Unit Area comprising 2,640 acres, more or less, of Federal and fee lands in Township 14 South, Range 37 East, Lea County, New Mexico.
- CASE 3340: Application of Socony-Mobil Oil Company, Inc. for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Denton North Wolfcamp Unit by the injection of water into the Wolfcamp formation through twelve wells located in Sections 25, 26, 27, 34, 35, and 36, Township 14 South, Range 37 East, Lea County, New Mexico.
- CASE 3341: Application of Tenneco Oil Company for an administrative procedure, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks the establishment of an administrative procedure whereby wells presently completed in the Blanco-Mesaverde Pool could, without notice and hearing, be recompleted in the Blanco-Mesaverde and/or Basin-Dakota Gas Pools by means of setting a whipstock above the Mesaverde producing interval and directionally drilling around the old interval of completion which was originally shot. Operators utilizing such administrative procedure would be required to conduct appropriate deviation tests to ensure that no well would be completed nearer than 200 feet to the outer boundary of its proration unit.
- CASE 3342: Application of Sunray DX Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into the Keeley zone of the San Andres formation through four wells in Sections 22 and 23, Township 17 South, Range 29 East.
- CASE 3343: Application of Sunray DX Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into the Metex zone of the Grayburg formation through four injection wells in Sections 14 and 15, Township 17 South, Range 29 East.

November 23, 1965, Examiner Hearing

CASE 3344: Application of Texaco Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Vacuum Unit Area comprising 2000 acres, more or less, of State land in Township 17 South, Range 37 East, Lea County, New Mexico.

CASE 3345: Application of Texaco Inc. for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its West Vacuum Unit by the injection of water into the Grayburg-San Andres formations through six injection wells located in Sections 3 and 4, Township 18 South, Range 34 East, and Sections 33 and 34, Township 17 South, Range 34 East, Vacuum Pool, Lea County, New Mexico.

CASE 3346: Application of Sinclair Oil & Gas Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Maljamar Pool by the injection of water into the Grayburg-San Andres formations through eight wells in Section 24, Township 17 South, Range 32 East, Lea County, New Mexico.

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

3334
LEGAL DIVISION
PHONE 827-2741

October 26, 1965

C
O
P
Y
Felmont Oil Corporation
P. O. Box 1855
Midland, Texas 79701

Attention: Mr. Roland C. Reynolds

Re: Non-standard Location, Bluit-San
Andres Gas Pool, Roosevelt County,
New Mexico

Gentlemen:

We have your letter of October 20, 1965, requesting approval of a non-standard location in the NE/4 NE/4 of Section 9, Township 8 South, Range 37 East, NMPM, Roosevelt County, New Mexico, for a Bluit-San Andres gas well.

As this application is not eligible for administrative approval under the Special Rules and Regulations governing the Bluit-San Andres Gas Pool, we have tentatively docketed your application for the examiner hearing to be held on November 23, 1965. A copy of the docket will be forwarded to you prior to the hearing.

Very truly yours,

J. M. DURRETT, Jr.
Attorney

JMD/ear

DOCKET MAILED

Date 11-10-65
H

FELMONT OIL CORPORATION • P. O. BOX 1855 • MIDLAND, TEXAS 79701 915 MU 2-5231

ROLAND C. REYNOLDS
MANAGER - WESTERN DIVISION

October 20, 1965



New Mexico Oil Conservation Commission
Santa Fe,
New Mexico

Attention: Mr. A. L. Porter, Jr.

REQUEST FOR A SPECIAL WELL PERMIT
IN THE BLUITT SAN ANDRES GAS FIELD,
ROOSEVELT COUNTY, NEW MEXICO

Gentlemen:

Permission is requested to drill a San Andres Gas well on a 320 acre unit formed by the east half of Section 9, T-8-S, R-37-E, Roosevelt County, New Mexico. The well is to be located in the NE/4 of the NE/4. This well requires a special permit, since it does not follow the pattern set up by the field rules. The BTA-Felmont A-1 Well was drilled at the proper location on this unit and a completion attempt was made in the lower part of the San Andres Interval and produced only salt water. Subsequent testing in the actual field pay produced a measurable amount of gas with an excess amount of salt water and the well was abandoned. Two other wells in Sections 11 and 14 are producing San Andres gas from a lower structural position.

It is our opinion that the acreage in the SE/4 of Section 9 would have been productive if fracturing of the lower San Andres had not created a mechanical problem in the well. Drilling another well near the abandoned well in the SE/4 runs the risk of encountering mechanical problems caused by the abandoned well, therefore, we propose to drill in the NE/4 of the NE/4 of Section 9.

In the event that a Commission Hearing is required to obtain this special well permit, please advise and we will proceed with the preparation of our evidence.

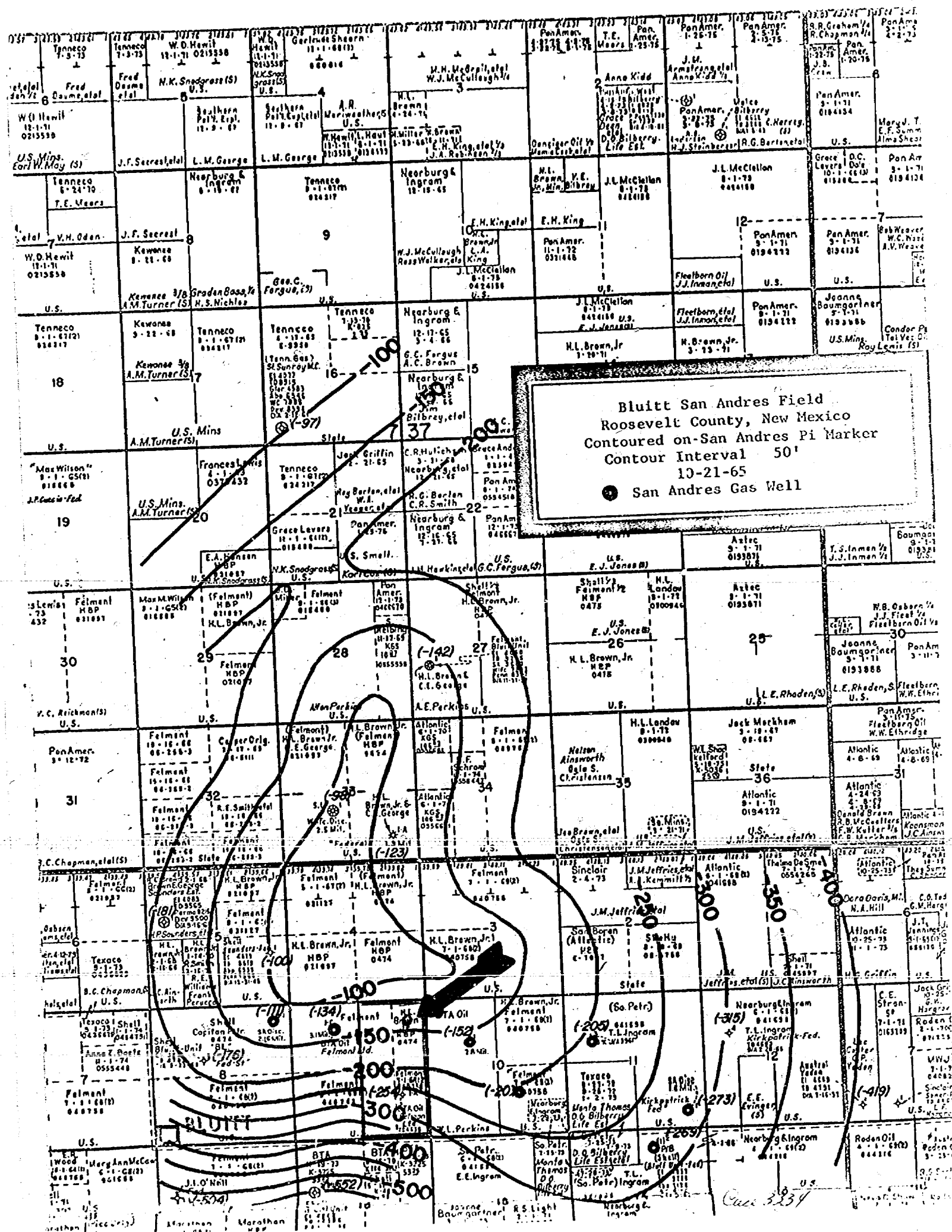
Yours very truly,

FELMONT OIL CORPORATION

Roland C. Reynolds
Roland C. Reynolds,
Manager, Western Division

RCR:pjt

MAIN
65 OCT 25 P 1
3334
660' NL
660' EL
Interval 9 Well No 1
C. C. C.



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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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PAGE 1

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 23, 1965

EXAMINER HEARING

IN THE MATTER OF:

Application of Felmont Oil Corporation for
an unorthodox location, Roosevelt County,
New Mexico. Applicant, in the above-
styled cause, seeks authority to drill its
Federal 9 Well No. 1 at an unorthodox
location 660 feet from the North and East
lines of Section 9, Township 8 South,
Range 37 East, Bluit-San Andres Gas Pool,
Roosevelt County, New Mexico.

Case No. 3334

BEFORE: DANIEL S. NUTTER, Examiner

TRANSCRIPT OF HEARING

MR. RUSSELL: John F. Russell of Roswell appearing on behalf of the applicant and I have one witness to be sworn.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 3 marked for identification.)

J O E D. M I L L E R, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. RUSSELL:

Q Will you state your name, address and by whom you are employed?

A Joe D. Miller of Midland, Texas and I'm employed by Felmont Oil Corporation.

Q In what capacity are you so employed?

A As a geologist.

Q Have you previously qualified to give testimony before this Commission?

A No, I have not.

Q Will you briefly state your educational background.

A I have a Bachelor of Science from Texas Tech, major in Geology. I graduated in 1956.

Q And what has been your employment since that time?

A I have been employed for four years with Felmont Oil and the balance of the other nine years has been as a

consulting geologist in Midland.

MR. RUSSELL: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, sir, they are.

Q (By Mr. Russell) Are you familiar with the application in Case Number 3334?

A Yes, sir.

Q What does it request?

A Well, Felmont would -- proposes to drill a nonstandard location in the San Andres -- Bluit-San Andres Field in Roosevelt County.

Q Now, referring to your notice of the hearing and the future exhibits which we will introduce, you indicate that this well will be located 660 feet from the north and east lines of Section 9, Township 8, Range 37 East; is that correct?

A Yes, it is.

Q That is not in conformity with the rules for the Bluit-San Andres Gas Pool, is that correct?

A That's correct.

Q And if the application is approved, is it agreeable with you that the actual location be in conformity with the pool rule?

A Yes, sir.

Q All right, now. I'll hand you what has been marked

Exhibit Number 1 and ask you to identify that exhibit and tell what it shows?

A This is a plat of the San Andres -- Bluitt-San Andres Field. The contours are on top of the Slaughter Zone which is the gas producing zone in this field and I also have list the top of the perforations and the base of the perforations of each of the producing wells in the field.

Q Does it show all of the producing wells in the field as well as dry hole?

A Yes, it does.

Q I'll now refer you to Exhibit Number 2 and ask you to identify that?

A Exhibit 2 shows the distances between the producing wells in the Bluitt-San Andres Field and also the dry hole in the southeast quarter of Section 9 which we believe is pertinent to this hearing.

Q But again, the 990 from the north line is acceptable?

A Yes.

Q Now, going back to Exhibit Number 1, are you the leasee of the east half of this Section 9?

A We are.

Q Now, does that exhibit indicate a dry hole in the southeast quarter?

A Yes, it does.



Q Did you drill that hole?

A No. B.T.A. drilled that last year.

Q Was that under a farm-out from you?

A Yes, it was.

Q And what happened in the drilling of that well, if you know?

A This well was drilled to the Slaughter Zone which is the gas-producing zone in this area and a long interval was perforated in it. The well started leaking water from right off in the first -- well, they never could get the thing to come around. And you will notice on the perforations that it is not perforated lower than one of the Nearburg-Ingram wells over to the east.

Q Which well is that? Can you identify it?

A That would be Nearburg-Ingram Number 1, Kirkpatrick Federal in Section 11, the same township and range. So, we believe that they went in, the perforations were all right, it would have made a good gas well but the fact that the well went into water. Well, I also have another exhibit here which shows the fractures or some fractures indicated on the log and we believe the treatment went down those fractures and into the San Andres water. For that reason they were never able to complete the well although they did try two squeeze jobs and ended up acidizing the well three times and fracturing it twice.

Q Now, the standard well locations for this pool are northwest quarter and the southeast quarter of this section, is that correct?

A That is correct.

Q And this well was drilled in the southeast quarter?

A It was.

Q All right, now. Why are you requesting an exception to the pool rule to enable you to drill in the northeast quarter?

A We believe where B.T.A. drilled is a good location, will make a commercial well, but we believe the mechanical difficulties which they encountered would make it a little hazardous to drill close to that well. Therefore, we would like to move as far away as possible on this lease and that's why we have proposed in the northeast quarter.

Q In your opinion, would it be -- would the economic risks be too great to drill another well in the southeast quarter?

A No, I don't believe so if you could get a good completion and know that you wouldn't fract into this well because of the stimulation, the better wells in the field are stimulated by fracturing and we feel that by getting too close to the B.T.A. dry hole that you could foul up your well if you were real close to it.

Q The risk now under the existing conditions created by the first well would make the economic risk too great to drill then?

A We feel that it would, yes.

Q Now, I'll refer you to what has been marked as Applicant's Exhibit Number 3.

MR. PORTER: Mr. Russell, just a minute. Would the B.T.A. well fract?

THE WITNESS: Yes, it refracted twice and acidized three times.

MR. PORTER: I see. Thank you. Go ahead.

Q (By Mr. Russell) Now, referring you to what has been marked as Applicant's Exhibit Number 3, I'll ask you what that is and what it reflects?

A This is a gamma ray acoustic log of the B.T.A. Number 1 "A" Felmont in this southeast quarter of Section 9 and it also has superimposed a dash line which is what is called a fracture finder and the perforations are marked in the center of the log and you see three separate groups of perforations at the upset of the well. They perforated this entire interval and acidized it and fracted it. The well did make some gas but it was loading up with water so then they tried squeezing off first the lower set of perforations and later the middle set and treating after each of those squeeze jobs and they were

never able to bring the well around to get a commercial well. They -- there was gas, measurable gas, recovered and we just feel that they have got mechanical difficulties and couldn't squeeze their water off.

Q In your opinion the southeast quarter of the section is productive of gas?

A Yes, sir.

Q And in your opinion if your application is approved, do you feel that it will recover gas from the east half of that section which would not otherwise be recovered?

A I believe so, yes.

Q And it would protect correlative rights?

A Yes.

MR. RUSSELL: I would like to offer into evidence Applicant's Exhibits 1 through 3.

MR. NUTTER: Applicant's Exhibits 1 through 3 will be offered.

(Whereupon, Applicant's Exhibits 1 through 3 were offered and admitted into evidence.)

MR. RUSSELL: I have no further questions.

CROSS EXAMINATION

BY MR. NUTTER:

Q Were any drill tests taken on this well prior?

A No. The field was already being developed and it

was just drilled down and logged and then pipes run.

Q I suppose the nearest thing to the south would be the Shell Bluit Number 2, down there in 16. Do you know if any San Andres gas was encountered in that well when it was drilled?

A No, sir. Actually BTA re-entered that well about, oh, a year ago. I'm not real sure of the date but it was logged and it recovered only water. These contours are kind of bunched up here reflecting the deep fault of the Matador Arch up there. They fall off very rapidly even in your shallow zones.

Q Now, you have got an estimate of a gas to water contact about a 575 minus, what do you base that on, Mr. Miller?

A Well, the Nearburg and Ingram well that I mentioned previously over in Section 11 there, Number One Kirkpatrick down in the southeast corner, it's perforated down to a minus 568 and it's been producing about a year. It is not making any appreciable water. Also on our -- within the Felmont, Hydro 10, Number 1 in Section 10, in the southeast corner, we on the balk had quite a high water saturation calculated between a minus 550 and a minus 575 so we feel that somewhere right in that interval gas/water contact is located. It could be slightly lower.

Q Now in each of these the two minus figures would be the top of the perforations and the bottom of the perforations is that correct?

A Yes, sir, that is correct.

Q Now, are any of these gas wells that you show here in green making water?

A Not a large amount. They make, oh, five to ten barrels a day but it just seems to have decreased in most of the wells after they have been on production. They are not making a large quantity, no, sir.

Q Still, now what do the pool rules call for as far as locations there are concerned?

A That we drill in the southeast of the quarter or the northwest of the quarter and I believe it's 990 from your boundary line or through sections lines and also from your quarter section lines.

Q I think you mean the southeast or the northwest of the section, don't you, quarter section?

A Yes.

Q And 990 from the outer boundary of the unit?

A That's correct.

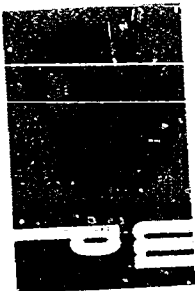
Q This application is for a well in the northeast quarter rather than the southeast quarter. That is where BTA drilled their well?

A Yes, sir.

Q And it was originally advertised to be 660 from north and east lines but you are amending that to be 990 from the north and east lines?

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A Yes, that's correct.

MR. NUTTER: Are there any further questions of Mr. Miller?

You may be excused.

Do you have anything further, Mr. Russell?

MR. RUSSELL: I have nothing further.

MR. NUTTER: Does anyone else have anything further they wish to offer in Case 3334?

We will take the Case under advisement and call Case 3335.

(Whereupon, Case Number 3334 was concluded.)

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I N D E X

| WITNESS | PAGE |
|-----------------------------------|------|
| JOE D. MILLER | |
| Direct Examination by Mr. Russell | 2 |
| Cross Examination by Mr. Nutter | 8 |

E X H I B I T S

| <u>EXHIBIT</u> | <u>MARKED FOR IDENTIFICATION</u> | <u>OFFERED</u> | <u>ADMITTED</u> |
|----------------|--------------------------------------|----------------|-----------------|
| App's. 1 | 2 | 8 | 8 |
| App's. 2 | 2 | 8 | 8 |
| App's. 3 | 2 | 8 | 8 |

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STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, DEAN A. ROBINSON, 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; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 1st day of December, 1965.

Dean A. Robinson
NOTARY PUBLIC

My Commission Expires:
October 16, 1969.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner Hearing of Case No. 3334 heard by me on 11/23, 1965.

[Signature], Examiner
New Mexico Oil Conservation Commission