1588 Application, Transcript, Smill Exhibits, Etc.

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

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IN THE MATTER OF:

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CASE Nc. 1588

TRANSCRIPT OF HEARING

DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE NEW MEXICO Phone Chapel 3-6691

February 4, 1959

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

IN THE MATTER OF:

Application of Atlantic Refining Company to commingle the production from several separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Ellenburger, McKee, Fusselman, Montoya, Blinebry, Drinkard, and Queen formations on its State "Y" Lease comprising the N/2 NE/4 and the SE/4 NE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico. Applicant proposes to separately meter the production from each formation except the Queen prior to being commingled.

CASE NO.

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1588

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: The next case will be Case No. 1588.

MR. PAYNE: Application of Atlantic Refining Company to commingle the production from several separate oil pools.

MR. BRATTON: Howard Bratton, Hervey, Dow, and Hinkle,

Roswell, New Mexico, appearing on behalf of the applicant.

We have one witness in the case this morning.

(Witness sworn.)

MR. UTZ: Are there any other appearances to be made

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In this case? If not, you may continue.

T. FROST, a witness called by and on behalf of the Applicant, being first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

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BY: MR. BRATTON:

Η.

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

A H. T. Frost, Jr., employed by the Atlantic Refining Company in Midland.

Q In what capacity?

A As assistant regional production engineer.

Q Have you ever appeared before this Commission before as an expert witness?

A No, sir, I have.

Q Will you state briefly to the Commission your educational and professional background?

A I received a BS degree in petroleum engineering from the University of Tulsa and have been production engineer for Atlantic Refining for the past twelve years.

And in your capacity as production engineer, have you dealt with matters similar to the matter under consideration in this case?

A Yes, I have.

MR. BRATTON: Are the witness' qualifications acceptable?

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MR. UTZ: His qualifications are acceptable.

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Q (By Mr. Bratton) Now, Mr. Frost, are you familiar with the application in Case 1588?

A Iam.

Q And with the area covered by the application?

A Iam.

Q And the proposed installation?

A I am.

Q I refer you to what has been marked as Atlantic's Exhibit 1 and ask you to explain what that exhibit is and what it shows?

A Exhibit 1 shows a portion of the Justis Field; namely the Atlantic State "Y" lease. We have shown on there the wells which we have completed and two locations which are in the process of drilling right now. This lease is the E/2 and the NW/4 of the NE/4 of Section 25, Township 25 South, Range 37 East. We have two Queen wells; the No. 1, a gas well, and No. 2, oil well. These two wells are not a part of this proposal, and the No. 3 is completed in the Montoya and Ellenberger formations. The No. 4, we are anticipating another Montoya and Ellenberger completion, and the No. 5, a Drinkard and Fussleman. Our legend at the bottom shows the six formations and the approximate tops of these various formations.

Q Turning now to Atlantic's Exhibit 2, 3, and 4, will you explain in order what those exhibits are and what they show?

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A These exhibits, 2, 3, and 4, show various stages of development of common storage batteries as the lease is developed. Exhibit 2 is for the first well, which is completed in two zones. Each zone is equipped with a separator and orifice meter for measurement of gas and a dump-type oil meter. Then, there will be commingled the oil, the production will be commingled into common storage after being measured by the dump-type meters. The tanks to be used will be manually gauged to run the oil to the pipeline.

Exhibit 3 shows the completion of a second well completed in the same two zones. Here we've added a test separator so that any zone of each well can be individually tested with the same dump-type meter and orifice meter. At any time on these that the wells start producing water, we propose to install a heater treater between the separator and the dump meter so that the oil still is metered at all times with the dump meter.

Exhibit 4 shows the third well completed in one of the previous zones and an additional third zone. Here we have added another separator and the metering equipment for the third zone. We have two lines coming off of each meter so that a meter can be calibrated at any time without interfering with production from other zones, from other separators.

Q Now, Mr. Frost, your legend on each exhibits shows each installation in the proposed system, is that correct?

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That's right.

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Is this system and the type of equipment which you propose to install, is it similiar to or identical with any equipment and system which has previously been approved by this Commission?

A This is similar to the system approved for the Gulf McBuffington lease in the Justis Field. However, this one which we are proposing is not an automatic custody transfer, it is simply common storage for the oil.

Q Otherwise, the equipment is similar except for these automatic custody tranfers?

A Other than that, it is the same type as approved for Gulf.

Q Now, this proposal does not cover the Queen formation that will go into a separate battery?

A That's correct, the Queen has a separate battery.

Q And you are willing to test the equipment, calibrate it periodically as may be required by the Commission?

A That's correct.

Ω

Q Are there provisions for metering the gas from the separator?

A The gas will be metered from each reservoir separately.

Q Where is this tank battery located, Mr. Frost?

A It's in the NE/4 of the NE/4. In fact, the SW/4 of that Quarter Quarter.

What section would that be?

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	A	Section 25.	
	Q	That's Township 25 South, Range 37 East?	
		MR. UTZ: What was that location again?	
	Α	The NE/4 of the NE/4.	
	ନ	(By Mr. Bratton) Approximately in the Southwest	
	corner of	the NE/4 of the NE/4?	
	А	Yes.	
	ବ	Is there anything further which you wish to state in	
	connection	with this application, Mr. Frost?	
	А	No, I don't believe so.	
	Q	In your opinion, Mr. Frost, will the granting of	
	this appli	cation prevent waste and protect correlative rights?	
	Å	Yes, I believe it will.	
	Q	If the application is allowed, in your opinion, will	
	the instal	lation of this system allow for a somewhat longer life	
	of the lea	se before abandonment?	
	A	Yes, i think it will, definitely.	
	ହ	Were Exhibits 1 through 4 prepared by you or under	
н. Т	your super	vision and direction?	
	А	Yes, they were.	
		MR. BRATTON: I would like to offer in evidence Atlan	tic's
	Exhibits 1	through 4 inclusive.	
		MR. UTZ: Without objection, they will be received.	
2		MR. BRATTON: We have no further questions, Mr.	

DEAR

Examiner.

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CROSS EXAMINATION

BY: MR. UTZ:

Q Mr. Frost, how many of these zones that you are requesting actually are productive at the present time?

A Two, at the present time; Montoya and Ellenberger. We are presently producing those two.

Q And your project well into the Fusselman, right?

A At the present time.

Q And you don't have any production in the Drinkard as yet?

A Not as yet. We are anticipating that the No. 5 will be a Drinkard-Fusselman producer.

Q In addition to the two producing zones and the two that you are projected to, you are asking for the same thing for the McKee and the Blinebry in addition, is that correct?

A That's correct.

Q Do you know what type of crudes the Montoya and Ellenberger are producing?

A They are intermediate.

Q Do you have any idea of what the Fusselman and Drinkard will be?

A Only that the pipeline company has said that they would all go in the intermediate line.

Q Even the Drinkard?

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Even the Drinkard so far. That is one thing, if one

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one of these zones that we haven't produced as yet turns out to be a sour zone, we would not want to put it in this battery, we would put it in the battery with the Queen, or another battery.

Q You will keep the sweet intermediate and sour crude separately?

A Separately, that's true.

Q And how about the McKee and Fusselman, what do you

expect?

A We expect them to be intermediate.

Q The Blinebry?

A Expect it to be intermediate.

Q The Blinebry in some instances is sweet?

A I believe so.

Q In some instances it is sour?

A Yes.

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

MR. UTZ: Mr. Payne.

EXAMINATION BY MR. PAYNE:

Q I would like to clarify one point here. Did you say if the Drinkard is the on'y formation that appears to be sour, you will commingle it with the Queen production?

A Well, I did say that. It would either be commingled with the Queen or in a separate battery by itself.

Q If it were to be commingled with the Queen -- I notice

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in your application you don't propose to separately meter the Queen production.

A The Queen is presently producing in a battery by itself. and is not to be produced into this common tank battery. The Queen is sour.

Q But if you did find it necessary to commingle the Queen and the Drinkard and perhaps the Blinebry in one battery, you would separately meter the production from each prior to commingling?

A That's true.

MR. PAYNE: Thank you.

A It would be another battery similar to this.

MR. BRATTON: I believe, Mr. Payne, if the production from the Drinkard were such that we had to put it in with the Queen or commingle it otherwise, we would have to come before the Commission with a new application.

MR. UTZ: In other words, the Queen is entirely outside of the scope of this hearing?

MR. BRATTON: That is correct.

THE WITNESS: That's right.

MR. UTZ: Any other questions? If not, the witness

may be excused.

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(Witness excused.)

MR. UTZ: Case 1588 will be taken under advisement.

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STATE OF NEW MEXICO COUNTY OF BERNALILLO

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I, Joseph A. Trujillo, Notary Fublic 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, 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 5th day of February, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

NOTARY PUBLIC

My Commission Expires:

October 5, 1960

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

September 4, 1962

The Atlantic Refining Company P. G. Box 1978 Reswall, New Mexico

Attention: Mr. A. D. Kloxin

Junt Lonon :

Reference is under to your letter of August 7, 1962, wherein you request approval of certain proposed revisions to your commingling installation constructed on your State "Y" Lease, Justis Field, Lea County, New Maxico, under authority of Commission Order No. R-1377.

Insamuch as the installation as revised would be in substantial compliance with the Commission's Manual for the Installation and Opera-//tion of Commingling Facilities, we have no objection to the revision.

Atlantic is, therefore, hereby authorized to revise said installation in accordance with the dizgram subsitted which will permit the commingling of production from the Ellenburger, McKee, Fuselman, Montoya, Blinebry, and Drinkard zones underlying the State "Y" Lease, after separately matering the production from all zones except the Montoya zone. Operation of said installation shall be in compliance with the aforesaid manual.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/DSN/esr

cc: Oil Conservation Commission - Hobbs Oil & Gas Engineering Committee - Hobbs State Land Office - Santa Fe



THE ATLANTIC REFINING COMPANY INCLIEFORATED - 1810 PETROLEUM PRODUCTS

August 7, 1962

DOMESTIC PRODUCING DEPARTMENT

COME MACANALAY, DISTINCT MANAGER

W. T. BARTES, DISTINCT MEDINITISICIST

A. D. BLOXIN, DEPINGT DELC. & FROD. SUP 1

B. R. WARE, ADDIDIETRATIVE SUPERVISOR

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

Attention: Mr. A. L. Porter, Jr. Secretary-Director

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Re: Commingle Lease Atlantic Refining Company State "Y" Lease, Justis Field Lea County, New Mexico

Dear Sir:

Reference is made to Case No. 1588, Order No. R-1377 whereby, The Atlantic Refining Company was granted permission to commingle the production from the Ellenburger, McKee, Fusselman, Montoya, Blinebry and Drinkard zones in a common battery. This Order states that each pool should be separately metered prior to commingling.

The Ellenburger zone has since been depleted and is no longer productive on this lease. To facilitate testing and producing of the remaining pools, we propose to revamp our commingling installation and make use of some Ellenburger surface equipment not being used. In revamping this facility, we propose to up-grade the installation to conform with the MANUAL FOR THE INSTALLATION AND OPERATION OF COMMINGLING FACILITIES. We are proposing to use the subtraction method for the Montoya zone. We r spectfully request that Order No. E-1377 be amended or that you give us permission to have an unmetered zone whose production will be determined by the subtraction method.

Enclosed is a schematic drawing of our proposed installation which we feel will give us adequate control during both producing and testing periods.

Should any other information or additional copies of these plats be required, please notify the writer.

Yours very truly,

The Atlantic Refining Company

autiation A. D. Kloxin

enc

cc: Joe D. Ramey w/enc

MAILING ADDRESS P. O. BOX 1978 ROSWELL, NEW MEXICO



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CARGE SHARE STREET



THE ATLANTIC REFINING COMPANY INCORPORATION . 1870 PETROLEUM PRODUCTS August 7, 1962

图 6.25

DOMESTIC PRODUCING DEPARTMENT 5 NEW MEXICO DISTRICT

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T GROLOGIST DRLG. & PROD. SUP'T. 00 CT DR. REDA

Oil Conservation Commission P. C. Ben 871 Santa Pe, New Mexico

Attention: Mr. A. L. Porter, Jr. Secretery-Director

> Re: Commingle Lease Atlantic Refining Company State "Y" Lease, Justis Field Les County, New Mexico

Dear Sirs

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Should any other information or additional copies of these plats be required, please notify the writer.

Yours very truly,

The Atlantic Refining Company

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cc: Joe D. Ramey w/enc

MAILING ADDRESS P. O. BOX 1978 ROSWELL, NEW MEXICO

b CARE 1588

HIRAM N. DOW CLARENCE Z. HINKLE W. E. BONDURANT, JR BORGE H. HUNKER DE TAT B, CHRISTY IV WIS C. COX, JR.

PAUL W. EATON, JR. ROBERT C. BLEDBOE

J. M. HERVEY 1674-1953 BERNEY, DOW & HINKLE HINKLE BUILDING PIT ROSWELL, NEW MEXICO

LAW OFFICES

NONE MAIN 2-6510 ST OFFICE BOX 54

January 8, 1959

Mr. A. L. Porter, Secretary-Director New Mexico Oil Conservation Commission Mabry Hall, State Capitol Santa Fe, New Mexico

Dear Mr. Porter:

We enclose herewith in triplicate Application of The Atlantic Refining Company to commingle the production from separate reservoirs underlying the Atlantic State "Y" lease in the Justis Pool.

We would appreciate your filing this Application and having it set down for an examiner hearing at the earliest possible time, allowing sufficient time for publication of notice. I would appreciate your sending me a copy of the notice of publication in connection with the case.

Please advise whether or not it has been the practice in connection with applications to commingle to give notice to offset owner. I cannot find any requirement in this regard but someone mentioned that they thought it might bo necessary.

Yours sincerely,

HERVEY, DOW & HINKLE

CEH/bp Docket Marted Docket -5 9 J-22-5 P Encl.

Case 158%

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

January 9, 1959

Rule 303 SKCEP. Humble

Mr. Clarence Hinkle Hervay, Dew & Hinkle P.C. Bex 547 Reswell, New Mexico

Dear Mr. Hinkle:

Reference is made to your letter of January 8, 1959, concerning the necessity of giving notice to offset operators in commingling cases.

The Commission Rules and Regulations do not so require, publication by the Commission being deemed sufficient.

However, as a matter of practice most operators do notify offsets when applying for an exception to Rule 303, presumably as a comity measure.

Very truly yours,

Oliver E. Payne Counsel

OEP:bp

SELFERE OF THE APLANCE NUMBER OF ON OURIDITY APPENDATION FOR PERMISSION UNODERSE PRODUCTON UNITY OF STATE FOR LEASE UNITY OF APPAL OF CORMELENT MEXICO

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Figure II

Figure 11 shows the proposed installation when a second well is defiled producing from the same two reases as the first will. Each producing somes has its own expander with noters. A test separator and colors has been added along with a test beader. This test header is connected to all nonzes. Each flow line connected to the header is context with a wheek wakes to prevent neckflow from one some to another. Sither wors of either well can be tested independently with all and gas being metersis

Figure III

Figure III share the proposed balt baltery miss a bhird mall is drilled. This nell is shown be producing from one of the mecryonics search to the first and second wall, and from a drive convolute two and are produced balter consistion of the third wall. Here reacher one calls actor and gas maker has been added for the third some of assistance wells and some are consisted batter dusts or singles, they mill produce the product react the argumentation of separators and noters are provided for and product product of the second schere produces. A separator and noters are provided for and product product of the second react best produced at a second on any reaction because the second will be actualled between the second and off another and contract of the second will be actualled between the second and off another are second will be and an actually be second to be second and off another.

Case- 1588

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION OF THE ATLANTIC REFINING COMPANY TO COMMINGLE PRODUCTION OF OIL AND GAS FROM SEPARATE RESERVOIRS UNDERLYING THE ATLANTIC STATE "Y" LEASE, JUSTIS POOL, LEA COUNTY, NEW MEXICO, COVERING THE NINE, AND THE SELNE: SECTION 25. TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M.

To New Mexico Oil Conservation Commission Santa Fe, New Mexico

Comes the undersigned, The Atlantic Refining Company, and hereby makes application to commingle the production of oil and gas produced from separate reservoirs underlying its Atlantic State "Y" lease located in the Justis Pool, Lea County, New Mexico, and embracing the following described lands situated in said county, to-wit:

> N¹/₂NE¹/₄, SE¹/₄NE¹/₄ Section 25, Township 25 South, Range 37 East, N.M.P.M., containing 120 acres, more or less,

and in support of such application respectfully shows:

1. That The Atlantic Refining Company has completed three wells on the lease hereinabove referred to, more particularly described as follows:

> (1) Atlantic State Y 1B completed in the Queen formation located 660' FNL and 1979' FEL said well being completed in the interval between 2911' and 3238'.

(2) Atlantic State Y 2A completed in the Queen formation located 330' FNL and 330' FEL, said well being completed in the interval from 3306' to 3332'.

(3) Atlantic State Y 3B located 330' FNL and 1650' FEL, said well being a dual completion in the Montoya formation in the interval from 6821' to 6683' and in the Ellenburger formation in the interval from 8143' to 8205'.

Applicant is in the process of drilling a fourth well, which at the present time has attained a depth of approximately 3,000 feet, known as the Atlantic State Y 4A which said well is located 430' FNL and 660' FEL and applicant contemplates completing the same in the Montoya formation at an interval of approximately 6,810' to 6,880' and in the Ellenburger formation at an interval of approximately 8,100' to 8,200'. There is attached hereto, made a part hereof and for purposes of identification marked Exhibit "A" a plat showing said leasehold interest and the location of the respective wells.

2. That well number 3 above referred to is producing oil and gas from separate reservoirs underlying said leasehold premises, namely the Montoya and Ellenburger formations and it is contemplated that applicant may also secure production from the McKee, Fusselman, With the Montoya and Drinkard formations and proposes to commingle the production from said separate reservoirs by producing the same into a common storage where the character of the crude produced is similar.

3. That the oil and gas produced from each reservoir, with the exception of the Queen reservoir, will be metered separately before commingling. An oil and gas separator, a dump-type oil meter and an orifice meter will be provided for each producing reservoir. When the fourth and each additional well is completed a test separator with identical oil and gas meters will be installed and whenever any zone begins producing water an emulsion treater will be installed between the respective separators and oil meters.

4. The installation contemplated for the measuring and production of the oil and gas from each separate reservoir into a common tank battery will include equipment tested and generally recognized by the industry as acceptable for such purpose so that the production from each separate reservoir will be effectively measured. Oil sold as crude of intermediate sulfur content will be commingled into the same tank battery and if any one zone produces another type crude another tank battery will be provided.

-2-

known as the Atlantic State Y 4A which said well is located 430' FNL and 660' FEL and applicant contemplates completing the same in the Montoya formation at an interval of approximately 6,810' to 6,880' and in the Ellenburger formation at an interval of approximately 8,100' to 8,200'. There is attached hereto, made a part hereof and for purposes of identification marked Exhibit A^{μ} a plat showing said leasehold interest and the location of the respective wells.

2. That well number 3 above referred to is producing oil and gas from separate reservoirs underlying said leasehold premises, namely the Montoya and Ellenburger formations and it is contemplated that applicant may also secure production from the McKee, Fusselman and Blinebry formations and proposes to commingle the production from said separate reservoirs by producing the same into a common storage where the character of the crude produced is similar.

3. That the oil and gas produced from each reservoir, with the exception of the Queen reservoir, will be metered separately before commingling. An oil and gas separator, a dump-type oil meter and an orifice will be provided for each producing reservoir. When the fourth and each additional well is completed a test separator with identical oil and gas meters will be installed and whenever any zone begins producing water an emulsion treater will be installed between the respective separators and oil meters.

4. The installation contemplated for the measuring and production of the oil and gas from each separate reservoir into a common tank battery will include equipment tested and generally recognized by the industry as acceptable for such purpose so that the production from each separate reservoir will be effectively measured and kept separate. Oil sold as crude of intermediate sulfur content will be commingled into the same tank battery and if any one zone produces another type crude another tank battery will be provided.

-2-

5. That applicant proposes to allocate the production from each of said wells producing from the respective reservoirs on the basis of periodic well tests made at such reasonable times as may be designated by the Oil Conservation Commission.

6. That the production from said reservoirs into a common tank battery will effect a considerable saving in installation and operating costs and it is believed that such installation will be in the interest of conservation and that such installation will not cause waste or impair correlative rights.

WHEREFORE, applicant prays that the Oil Conservation Commission after due notice and hearing as provided by law and the rules and regulations of the Oil Conservation Commission enter an order approving the production of oil and gas as above set forth from the several separate reservoirs underlying the above described lease into a common tank battery.

> Respectfully submitted, THE ATLANTIC REFINING COMPANY

HERVEY, DOW & HINKLE

Roswell, New Mexico

Attorneys for The Atlantic Refining Company



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SUPPLEMENTAL DOCKET: EXAMINER HEARING FEBRUARY 4, 1959

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

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

CASE 1595: Application of John J. Dempsey Associates for the assignment of a minimum allowable to one gas well in the Fulcher Kutz-Pictured Cliffs Gas Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order assigning a minimum allowable to one gas well in the Fulcher Kutz-Pictured Cliffs Gas Pool in order to prevent premature abandonment thereof, said well being the Hutchison Well No. 1 located 660 feet from the North line and 635 feet from the East line of Section 1, Township 29 North, Range 13 West, San Juan County, New Mexico.

No. 5-59

DOCKET: EXAMINER HEARING FEBRUARY 4, 1959

OIL CONSERVATION COMMISSION 9 a.m., Mabry Hall, State Capitol, SANTA FE

The following cases will be heard before ELVIS A. UTZ, Examiner:

CASE 1587: Application of Cabot Carbon Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its J. L. Reed Well No. 2 located 660 feet from the North and East lines of Section 35, Township 13 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the King-Wolfcamp Pool and King-Devonian Pool through parallel strings of 1¹/₂" tubing.

CASE 1588: Application of Atlantic Refining Company to commingle the production from several separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Ellenburger, McKee, Fusselman, Montoya, Elinebry, Drinkard, and Queen formations on its State "Y" Lease comprising the N/2 NE/4 and the SE/4 NE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico. Applicant proposes to separately meter the production from each formation except the Queen prior to being commingled.

CASE 1589: Application of Humble Oil & Refining Company for an exception to Rule 16 of Order R-586 and for an exception to Rule 303 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order permitting the classification of a 4β -degree gravity oil well as a gas well in the Tubb Gas Pool, said well being its dually completed State "V" Well No. 11 located in the NE/4 SW/4 of Section 10, Township 21 South, Range 37 East, Lea County, New Mexico. Applicant further seeks permission to commingle the liquid hydrocarbons produced from the Tubb zone of said State "V" Well No. 11 with Tubb oil produced from its State "V" Well No. 7 located in the SE/4 SW/4 of said Section 10. Applicant further seeks permission to commingle the Blinebry condensate produced from said State "V" Well No. 11 with the Blinebry oil produced from its State "V" Well No. 1 located in the SW/4 SW/4 of said Section 10.

CASE 1590;

Application of Rex Moore for an order authorizing a gas injection project in San Juan County, New Mexico, and for the promulgation of special rules and regulations in connection therewith. Applicant, in the above-styled cause, seeks an order authorizing it to inject gas into the Gallup formation of the Bisti-Lower Gallup Oil Pool through its Scott No. 5 Well located 2115 feet from the South line and 2080 feet from the West line of Section 3, Township 24 North, Range 10 West, San Juan County, New Mexico. Applicant further proposes that special rules and regulations be promulgated to govern the above-described project, which rules would provide for the transfer of the allowable from the injection well to producing wells, transfer of allowables from wells which have -2-Docket No. 5-59

> been shut-in for observation or to increase the efficiency of the project, operation of the wells on a net gas-oil ratio basis giving allowance for gas injected, and such other rules and regulations as the Commission deems necesmary.

CASE 1591:

Application of Angels Peak Oil Company for the assignment of minimum allowables to two gas wells in the Fulcher Mutz-Pictured Cliffs Gas Peel, San Juan County, New Maxico. Applicant, in the above-styled cause, seeks an order assigning minimum allowables to two gas wells in the Fulcher Kutz-Pictured Cliffs Gas Peel in order to prevent premature abandenment thereof, said wells being applicant's Angels Peak Well No. 3 located 595 feet from the North line and 1249 feet from the East line of Section 11 and Angels Peak Well No. 5 located 285 feet from the North line and 1520 feet from the West line of Section 11, beth in Township 28 North, Hange 11 West, San Juan County, New Maxico.

CASE 1592:

Application of Amerada Petroleum Corporation for an order extending the horizontal limits of the Bagley-Upper Pennsylvanian Gas Pool and for a non-standard gas provation unit. Applicant, in the above-styled cause, seeks an order extending the horizontal limits of the Bagley-Upper Pennsylvanian Gas Pool to include the E/2 of Section 33, and the NW/4 of Section 34, all in Township 11 South, Range 33 East, Lea County, New Mexico. Applicant further seeks the establishment of a 320-acre non-standard gas provation unit in said pool consisting of the NE/4 of said Section 33, and the NW/4 of said Section 34, to be dedicated to the applicant's State BT "M" No. 2 Well located in the SE/4 NE/4 of said Section 33.

CASE 1593:

Application of The Texas Company for a non-standard gas prevation unit. Applicant, in the above-styled cause, seeks an order authorizing a 241-acre non-standard gas provation unit in the Rumont Gas Pool consisting of the NE/4 of Section 5, Township 20 South, Range 37 East, and the S/2 SE/4 of Section 32, Township 19 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to applicant's J. W. Cooper Well No. 5 located 1668 feet from the North line and 1650 feet from the East line of said Section 5.

CASE 1196:

Application of The Ibex Company for permission to expand its water flood project in the Artesia Pool, Eddy County, New Mexico, and for eight unorthodox well locations. Applicant, in the above-styled cause, seeks an order permitting the expansion of its Artesia Water Flood Project No. 2, authorized by Order No. R-966 in the Artesia Pool, Eddy County, New Mexico, to convert to water injection a well in the NW/4 NW/4 of Section 28 and a well in the SW/4 NE/4 of Section 28, both in Township 18 South, Range 28 East. Applicant further seeks approval of eight unorthodox well locations in Sections 21 and 28 of the aforementioned township.

No. 5-59

DOCKET: EXAMINER HEARING FEBRUARY 4, 1959

OIL CONSERVATION COMMISSION 9 a.m., Mabry Hall, State Capitol, SANTA FE

The following cases will be heard before ELVIS A. UTZ, Examiner:

CASE 1587: Application of Cabot Carbon Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its J. L. Reed Well No. 2 located 660 feet from the North and East lines of Section 35, Township 13 South, Range 37 Rast, Lea County, New Mexico, in such a manner as to permit the production of sil from the King-Welfcamp Pool and King-Devenian Pool through parallel strings of 1¹/₂" tubing.

CASE 1588: Application of Atlantic Refining Company to commingle the production from several separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Ellenburger, McKee, Fusselman, Montoya, Blinebry, Drinkard, and Queen formations on its State "Y" Lease comprising the N/2 NE/4 and the SE/4 NE/4 of Section 25, Township 25 South, Mange 37 East, Lea County, New Mexico. Applicant proposes to separately meter the production from each formation except the Queen prior to being commingled.

Application of Humble Oil & Refining Company for an exception CASE 1589: to Rule 16 of Order R-586 and for an exception to Rule 303 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order permitting the classification of a 4B-degree gravity oil well as a gas well in the Tubb Gas Pool, said well being its dually completed State "V" Well No. 11 located in the NE/4 SW/4 of Section 10, Township 21 South, Range 37 East, Lea County, New Mexico. Applicant further seeks permission to commingle the liquid hydrocarbons produced from the Tubb zone of said State "V" Well No. 11 with Tubb eil produced from its State "V" Well No. 7 located in the SE/4 SW/4 of said Section 10. Applicant further seeks permission to commingle the Blinebry condensate preduced from said State "V" Well No. 11 with the Blinebry oil produced from its State "V" Well No. 1 located in the SW/4 SW/4 of said Section 10.

CASE 1590;

Application of Rex Moore for an order authorizing a gas injection project in San Juan County, New Mexico, and for the promulgation of special rules and regulations in connection therewith. Applicant, in the above-styled cause, seeks an order authorizing it to inject gas into the Gallup formation of the Bisti-Lower Gallup Oil Pool through its Scott No. 5 Well located 2115 feet from the South line and 2080 feet from the West line of Section 3, Township 24 North, Range 10 West, San Juan County, New Mexico. Applicant further proposes that special rules and regulations be promulgated to govern the above-described project, which rules would provide for the transfer of the allowable from the injection well to producing wells, transfer of allowables from wells which have Docket No. 5-59

CASE 1594:

-3-

Application of The Iber Company for permission to install three separate lease automatic custody transfer systems. Applicant, in the above-styled cause, meaks an order authorizing it to install three separate lease automatic custody transfer systems, one on its Welch Duke State Lease, one on its Bouler Tates State Lease and the other on its McMutt State Lease, all in the Artesia Field, Township 18 South, Mange 28 Hast, NMPM, Midy County, New Mexico. Applicant further seaks permission to consolidate multiple tank batteries on said Resler Yates State Lease in exception to Rule 309 of the Commission Rules and Regulations.

CONTINUED CASE

CASE 1573:

Application of Southwestern, Inc. Oil Well Servicing for permission to make a "slim hole" completion. Applicant, in the above-styled cause, seeks an order authorizing it to utilize the "slim hole" method of completion for a well located in the SE/4 NW/4 Section 32, Township 16 South, Range 30 East, Square Lake Pool, Eddy County, New Mexico. Applicant proposes to utilize 22 inch tubing as a substitute for casing in the above-described well.

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Date 2-10-59

CASE NO. 1599

HEARING DATE

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

as follows: approve coominghing She following formations are approved for cooming line on the atlantic - State"y" for cooming line on the atlantic - State"y" lease: (Attandesignated - Montoya - Productice (b) " - Ellentheger - " (c) " - Malche - malpindutes *|*. (d) - Durselman-(e) fivetes - Blenebry -(f) Andesignated - Drinkard -2. Each formations must be metered by one 3. Postive displacements or Dump typestype 3. Postive displacements or Dump typestype meters much be used. O ripie meters to be used for metering Lar. 4. Separate tanks battenes should be provided for each grade of curde. Staff Membe

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Date 2-10-59 CASE NO. 1595 HEARING DATE 2-4-59 My recommendations for an order in the above numbered case (is) are as follows: approve comingling as follows: 1. The following formations are approved for coomingling on the atlantic - State y" Lease: Andergnated - Montoya - Productive - Ellenheiger- " - Malle - matpinluts (b-) (4) Jurselman -(d)Justis - Blinebry Undesignated - Drinkard (e) f Lf 2. Each formations must be metered byfore 3. Postive displacements or Dump typestip meters must be used. O ripie meter to be used for metering Lan. A. Separate tanks batteries should be provided. Abs each grade of curde. Member

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

February 24, 1959

Mr. Howard Bratton Hervey, Dow & Hinkle P.C. Box 547 Roswell, New Mexico

Dear Mr. Bratton:

Enclosed herewith please find Order R-1337 entered in Case No. 1588 authorizing the installation of automatic custody transfer equipment on the State "Y" Lease. You will note that this order requires that the meters used in the automatic custody transfer equipment shall be checked for accuracy once each month until further order of the Secretary - Director.

Results of tests shall be filed with the appropriate district office of the Commission and shall be on the meter test report form which is available at all district offices.

Very truly yours,

A. L. Porter, Jr. Secretary - Director

ALP/DSN:bp Encls.

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

February 25, 1959

Mr. Howard Bratton Hervey, Dow & Hinkle Box 547 Roswell, New Mexico

Dear Howard:

On February 24th, 1959, we mailed you two copies of Order No. R-1337 in Case No. 1588.

I have discovered an error in the subject order in the final paragraph. Flease disregard the final paragraph in its entirety. Eaclosed are two copies of page two which should be substituted for those on the orders mailed to you yesterday.

Very truly yours,

Oliver E. Payne General Counsel

OEPibp. Encls.

CC-OCC, Hobbs

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE MEASING CALLED BY THE OIL COMBENSATION COMMINSION OF NEW MEXICO FOR THE PURPORE OF COMBINING:

> CASE NO. 1588 Order No. 3-1237

APPLICATION OF THE ATLANTIC REFINING COMPANY FOR PERSISSION TO COMMINMER THE PERSONNER FROM SEVERAL SEPARATE OIL POOLS IN LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMERSION:

The second line

This cause case on for hearing at 9 c'clock a.m. on February 4, 1980, at Santa Fe, New Maxico, hefere Zivis A. Sts. Examiner duly appointed by the Gil Canservation Commission of New Maxico, hereinafter referred to as the "Commission," in accordance with Tale 1214 of the Commission Bales and Regulations.

10%, on this $13^{\frac{12}{2}}$ day of February, 1960, 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, The Atlantic Refining Company, is the owner and operator of the State "Y" lease comprising the N/2 NE/4 and the SE/4 NE/4 of Section 25, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to commingle the Ellenburger, McKee, Fusselman, and Montoya production, as well as the Blinebry and Drinkard production if they prove to be intermediate grade crudes, from all wells presently completed or hereafter drilled on said State "Y" lease.

(4) That if the production from any of the above-mentioned formations proves to be sour crude, it will not be commingled with the intermediate grade crudes.

(5) That the applicant proposes to separately meter the production from each formation prior to commingling.

-2-Case No. 1588 Order No. 2-1337

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

IT IS THEREFORE ONDERED:

That the applicant, The Atlantic Melining Company, be and the same in Anothy antiperimed to commingle the Elizabergar, Holmo, Participan, and Manbuya production, as well as the Elizabergar, Holmo, Participant production if they prove to be intermediate grades, from all wells presently completed or bereafter drilled on the State "T" lease comprising the K/2 ME/4 and the SE/4 ME/4 of Section 25, Township 25 Bouth, Range 37 Hast, NHVM, Lea County, New Mexico.

PROVIDED HOWEVER. That the production from each of said pools shall be experiately network prior to comingling and such networe shall be checked for accuracy once each much until further order of the Secretary-Director and the results of such tests shall be furnished to the Commission.

PROVIDED FORTHER, That the applicant shall install adoptate testing facilities to permit the testing of all wells located on said State "T" loase at least once each month to determine the individual production from each some of each of said wells.

DONE at Santa No, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION JOHN BURROUGHS, Chairman

Mentaga

MURRAY E. MORGAN, Member

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



ir/





EXEMD: S - Separator H/T - Emulsion Treater M - Oil Meter ? - Gas Meter M - Manual block valve N - Check valve

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THE ATLANTIC REFINING COMPANY PROPOSED TANK BATTERY TO COMPINGLE PRODUCTION

ATLANTIC STATE "Y" LEASE JUSTIS AREA, LEA COUNTY, NEW MEXICO

> FIGURE I TANK BETTERY FOR FIRST WELL



- S H/T Smulsion Treator -
- Dil Meter
- Ę Cas Leter
- Manual block valve Check valve •
- \bowtie

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FIGURE II TANK EATTORY WITH TWO WELLS



71 (1) 1588 2133

Well Harden Car

WO-FULLES OF THE ATTACTIC REPIETED CO. [CONTINUES APPENDATION FOR DIALESSION TO LORMINSIE FRODUCTICS NELENTIC STATE MYS VANSE (USING AREA, ARE COUNTY, NEW MEXICO)

Attended and three columnics drawings of a proposed back bettery on the Atlantic State Will and a state of the Area, Les Charles, for Contest this proposed will penale the use of the area states with the oil and ges produced from each where where of the areas at a state gling in the someon states. These there are a provided at the form of the battery as a clinit cast where are accordence in and on the battery as a clinit cast where are accordence of such a such or any on proposed is for and the areas and accordence of such a such or a such or a proposed is for and the areas and accordence of such as the such or a such or areas the batter of a such that is a clinic analy of any of any of a such areas the batter of a such that is a clinic where of the such or areas the batter of a such that is a clinic with the fills

An oil and gas separation, due the addition of the state for gas and provides all work producing restantion who second woll is completed a bast separater with identified oil and gas that will be installed. Absnever add to be been begins are driving which an outside the tribule between the respective separater and the constant.

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ે પ્રાક્ષિક કડે કેલે સગવડ ગાયક કેલે અનેલે વિકાર કરવા કાર્યવાય છે છે. તે પ્રાક્ષિય ગાયક શિદ્ધ સ્વાદ્ધ કે શિ સંસ્થાય છે તે આવ્યા છે હિંદી સંસ્થાય છે. આ સમ્યોદક પ્રાક્ષિય ગાય પ્રાદ્ધ સ્વાદ સ્વાદ સ્વાદ શિદ્ધ શિદ્ધ શિંદ સંસ્થાય છે. આ સ્થાય છે છે. આ સમય સ્વાદ આ સ્થાય સ્વાદ સ્વાદ છે. આ સ્થાય સ્વાદ સ્વાદ સ્વાદ સ્વાદ શિદ્ધ સ્વાદ શિદ

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Figure 11 shows the proposed installation does a second wold is drilled producing from the case two series as the first wold. Each producing zones has its own separator with soters. A test separator and reters has had added along with a test header. This test header is connected to all zones. Each flow line connected to the header is equipped with a check value to provent backflow from one sone to another. Sither zone of either well can be bested independently with cil and gas being astered.

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Marine III

Figure AL shows the proposed bank battery when a third well is drilled. This well is shown to be producing from one of the conservative common to the first out second well, and from a which pour which has not been produced before completion of the third well. and a which pour which has not been produced before completion of the third well. and a solution of the repeater, all policy and ges maker has been added for the third some. If additional wells and tonks are completed either duals or ourgles, they will particle through their respective superstore. A separator and heaters are provided for such producing removed to be production begins on any zone be each product will be ingledied before and only heaters.