CASE 2220: Application of SHELL for permission to commingle. (Carl H. Livingston Lease).

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0.30 plistin, Transcript, mall Exhibits, Etc.

DRAFT #2

RSM/esr April 4, 1961

> 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. 2220 Order No. R- /936

ADDITIONTION OF SUBLL OIL COMPANY FOR AN EXCEPTION TO RULE 303 (a) AND RULE 309 (a), LEA COUNTY, NEW MEXICO.

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ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on <u>March 22</u>, 1961, at Santa Fe, New Mexico, before <u>Elvis A. Utz</u> 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 <u>day of April</u>, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz , 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, Shell Oil Company, is the owner and operator of the Carl H. Livingston lease, comprising 320 acres in Sections 3 and 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant seeks permission to commingle the production from the Drinkard, Wantz-Abo, and Blinebry Oil Pools from all wells presently completed or hereafter drilled on said Carl H. Livingston lease, with the production from the various pools determined by subtracting the Blinebry Oil Pool production from the total commingled production and allocating the remaining production between the Drinkard and Wantz-Abo Pools on the basis of monthly well tests.

. . . .

-2-CASE No. 2220

(4) That all wells on the subject lease producing from the Drinkard and Wantz-Abo Pools are marginal.

(5) That the Blinebry Oil Pool production should be continuously metered and should be limited to the allowable for that pool as shown by the Blinebry production meter.

(6) That the proposed installation as shown on Exhibit Nos. 2 and 4 in this case should be authorized, provided, however, that all production and test meters should incorporate a non-reset totalizer and should be calibrated against a test tank or a master meter.

(7) That inasmuch as an industry committee has been appointed to study all phases of commingling and to recommend minimum standards to prevent abuses thereof, it may be that this installation, at a later date, will have to be altered to conform to such standards as the Commission may prescribe.

(8) That the applicant further proposes to install an automatic custody transfer system to handle said commingled production.

(9) That the previous use of automatic custody transfer equipment, similar to that proposed by the applicant, has shown that such equipment is a reliable and economic means of transferring the custody of oil, and that the use of such equipment should be permitted, provided adequate safety features are incorporated therein.

IT IS THEREFORE ORDERED:

-

(1) That the applicant, Shell Oil Company, is hereby authorized to commingle the production from the Drinkard, Wantz-Abo, and Blinebry Oil Pools from all wells presently completed or hereafter drilled on the Carl H. Livingston lease, comprising 320 acres in Sections 3 and 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, with the production from the various pools determined by subtracting the Blinebry Oil Pool production from the total commingled production and allocating the remaining production between the Drinkard and Wantz-Abo Pools on the basis of monthly well tests. -3-CASE No. 2220

FURTHER

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PROVIDED HOWEVER, That this installation shall conform to Exhibit Nos. 2 and 4 in this case except that all production and incorporate test meters shall be of a type utilizing a non-reset totalizer and shall be calibrated against a test tank or a master meter. <u>PROVIDED FURTHER</u>, That the production from the Blinebry Oil Pool shall be limited to the allowable for that pool as shown by the Blinebry production meter.

<u>PROVIDED FURTHER</u>, That it may be that this installation, at a later date, will have to be altered to conform to such standards as the Commission may prescribe.

(2) That the applicant is hereby authorized to install an automatic custody transfer system to handle said commingled production.

PROVIDED HOWEVER, That the applicant shall install adequate facilities to permit the testing of all wells located on the above-described Carl H. Livingston lease at least once each month to determine the individual production from each well.

<u>PROVIDED FURTHER</u>, That in order to prevent the overflow and waste of oil in the event the automatic custody transfer system fails to transfer oil to the pipeline, the applicant shall add additional storage facilities from time to time, as it becomes necessary, to store the production which will accrue during the hours that said lease is unattended.

IT IS FURTHER ORDERED:

That all meters used in the above-described automatic custody transfer system shall be operated and maintained in such a manner as to ensure an accurate measurement of the liquid hydrocarbon production at all times.

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That meters shall be checked for accuracy at least once each month until further direction by the Secretary-Director.

That all meters shall be calibrated against a master meter or against a test tank of measured volume and the results of such calibration filed with the Commission on the Commission form entitled "Meter Test Report."

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated. ROS THIS NID S R U READING NE H SRY WAS BY ON AND NACK YES I AN READING UTHIS ROS GA

WILL HY TO REMUN THIS ONE

434 HID OFC 3-20-61-423P/NEW/

434 HID OFC 3-20-61-423P/ NEW/ ROSVELL - SHELL OIL COMPANY THE DESIGN OF THE LACT EQUIPMENT WHICH YOU PROPOSE TO INSTALL ON THE SHELL-MCKINLEY "A" LEASE, S/8 SECTION 19, R-38-E, T-18-S, LEA COUNTY, NEW MEXICO, THE SHELL-ORINES LEASE, SW/4 SECTION 25, R-38-E, 'T-18-S, LEA COUNTY, NEW MEXICO, AND THE SHELL-LIVINGSTON LEASE SECTION 4, T-21-S, R-37-E, LEA COUNTY, NEW MEXICO, IS APPROVED AS OUTLINED IN YOUR LETTERS DATED FEBRUARY 23 AND FEBRUARY 28, 1961, AND SHELL PIPE LINE CORPORATION WILL ACCEPT CUSTODY TRANSFER OF THE CRUDE WITH P. D. WETFOR. P. D. HETERS.

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SHELL EXHIBIT 1 CASE 2220

DOCKET: EXAMINER HEARING - WEDNESDAY, MARCH 22, 1961

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

The following cases will be heard before Elvis A. Utz, Examiner, or Oliver E. Payne, attorney, as alternate examiner:

CASE 2218: Application of Shell Oil Company for an exception to Rule 309 (a) and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to transport oil from its McKinley "A" lease, S/2 of Section 19, to its McKinley "B" lease, SW/4 of Section 20, and to comminute the production from the leases are to comminute the production from the leases are located in Township 18 South, Range 38 East, Lea County, New Mexico, and the production involved is all from the Hobbs Pool.

Application of Shell Oil Company for an exception to Rule 309 (a) and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to transport oil from its Turner Lease, W/2 NE/4 of Section 34, to its Sanger Lease, Section 27, prior to measurement, and after measurement and commingling of production from the two leases, to transport it to the Grimes Lease, SW/4 of Section 28, for treatment. Applicant also desires to transport oil from its State "B" Lease, N/2 NW/4 of Section 33, to the said Grimes lease prior to measurement, and then, after measurement and treatment thereof, to commingle such production with the production from the other three leases, at which time the commingled production from the four leases is proposed to be handled by automatic custody transfer facilities. All leases are located in Township 18 South, Range 36 East, Lea County, New Mexico, and the production involved is all from the Hobbs Pool.

> Application of Shell Oil Company for an exception to Rule 303 (a) and Rule 309 (a). Applicant, in the above-styled canke, seeks permission to commingle the production from the Drinkard, Wantz-Abo and Blinebry Oil Pools from all Wells presently completed or hereafter drilled on the Carl H. Livingston Lease comprising 320 acres in Sections 3 and 4, Township 21 South, Range 37 East, Lea County, New Mexico, allocating the production from the various pools on the basis

CASE 2220:

is

CASE 2219:

CASE 2220: (Continued)

of continuous metering of the Blinebry production and periodic well tests of the Wantz-Abo and Drinkard production. Applicant also seeks permission to install an automatic custody transfer system to handle said commingled production.

CASE 2221: Application of Shell Oil Company for an exception to Rule 303 (a) and Rule 309 (a). Applicant, in the above-styled cause, seeks permission to commingle the production from the Vacuum and Vacuum-Abo Pools from all wells presently completed or hereafter drilled on the Shell State "T" Lease comprising the SE/4 of Section 33, Township 17 South, Range 35 East, Lea County, New Mexico. Applicant also seeks permission to install an automatic custody immediar system to handle said commingled production.

CASE 2222: Application of Continental Oil Company for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the Vacuum Pool production from all wells presently completed or hereafter drilled on its State "H" Lease, SE/4 SE/4 of Section 34 and E/2 NW/4 and NE/4 of Section 35, all in Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 2223: Application of Sinclair Oil & Gas Company for a 240-acre nonstandard gas proration unit, and for an order force-pooling all mineral interests therein, and for an unorthodox gas well location. Applicant, in the above-styled cause, seeks the establishment of a 240-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the NE/4 NE/4 of Section 33 and the NW/4 and NW/4 NE/4 of Section 34, Township 19 South, Range 37 East, Lea County, New Mexico, and for an order forcepooling all mineral interests therein including those of Robert Roy Taylor, a minor, whose guardian is Johnnie S. Taylor, Jal, New Mexico. Applicant proposes to dedicate said unit to the J. H. Williams Well No. 3, located on an unorthodox location 1980 feet from the North line and 660 feet from the West line of said Section 34.

CASE 2224:

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Application of Len Mayer for an unorthodox gas well location. Applicant, in the above-styled cause, seeks approval for an unorthodox gas well location in the Atoka-Pennsylvanian Gas Pool at a point 1650 feet from the South line and 990 feet from the West line of Section 28, Township 18 South, Range 26 East, Eddy County, New Mexico.

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J. O. SETH A. K. MONTGOMERY OLIVER SETH WM. FEDERICI FRANK ANDREWS FRED C. HANNAHS GEORGE A. GRAHAM, JR SETH, MONTGOMERY, FEDERICI & ANDREWS attorneys and counselors at law 301 don gaspar avenue Santa Fe. New Mexico

February 20, 1961

POST OFFICE BOX 828 TELEPHONE YU 3-7315

New Mexico Oil Conservation Commission P. O. Box 871 Samia Foy New Mexico

> Re: Application for Hearing Shell Oil Company Exception to Rule 309 and 303 in Sections 3 and 4 in Twp. 21 S., Rge. 37 E., in Lea County, New Mexico

Gentlemen:

The applicant herein requests an Examiner Hearing to be held upon this application for an exception to Rule 303 of the Commission to permit the commingling of production from its Carl H. Livingston Lease containing approximately 320 acres and located in Sections 3 and 4, Twp. 21 S., Rge. 37 E., as is more particularly shown on attachment "B" to this letter.

Applicant requests the exception to the rule to permit it to commingle production from three separate pools before marketing.

The applicant further requests an exception to Rule 309 of the Commission in order to permit it to transport production from the lease before it has been measured in tankage on the lease as the rule requires. A diagram of the proposed commingling herein requested is enclosed herewith as "Attachment A".

The applicant desires to commingle oil production from five separate wells in the Drinkard Pool with the oil production from one well in the Wantz Abo Pool and one existing oil well, plus any future wells to be completed in the Blinebry Pool.

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Page 2 New Mexico Oil Conservation Commission February 20, 1961

If this application is granted it is proposed that the Blinebry oil will be continuously metered, while the Drinkard and the Wantz Abo oil will be allocated on the basis of monthing well tests. The applicant further desires to install automatic custody transfer equipment to transfer the commingled oil to the pipe line through positive displacement meters.

Your consideration of this matter will be appreciated.

Very truly yours,

SHELL OIL COMPANY

/// By Its Attorney

OS:mc

Jace 2222





(are 2220 Deard 3-22-61 Rec. 3-30-6/ 1. Frank Shell's request for coomingling of all wells in the Blineby, Simbaud and Manty-abop on their Carl a. Liningston lease consisting of Loto 13 +14, NET Sulf, Holow 4, 5 with 54/4 - 3 - 3 - Rote 9 and 16, sec. 4, allin 215-37 E. also grant permission to installe HOT for transferming custody of the 2. The mechanics of this matallation shall be in a deord and with with R and of This case except for thef ollowing? (a) The totalizers on the Blineby and Seat meter Shall be of the non-reset type. (4) She meters for the Blineby and Jest the shall be calibrated against a test tank or master meter. 3. She recent statement pertaining to the Co-act committee and port changes shall be incorported in This order. Showld owled to be governed allowed and allow when allowed blue of allow the flow of the stand of the stand Elwind. Hy

GOVERNOR Edwin L. Mechem Chairman

State of New Wexico I Conservation Commission

LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER

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STÂTE GEOLOGIST A. L. PORTER, JR. Secretary - Director

April 10 1961

Mr. Oliver Seth Seth, Nontgomery, Pederici & Andrews Box 828 Santa Fe, New Mexico

Re: Case No. 2220 Order No. R-1936 Applicant: Shell Oil Company

Dear Sir:

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

Very truly yours, 1ı 7. A. L. PORTER, Jr.

Secretary-Director

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Carbon copy of order also sent to:

 Hobbs OCC
 X

 Artesia OCC
 Artec 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. 2220 Order No. R-1936

APPLICATION OF SHELL OIL COMPANY FOR AN EXCEPTION TO RULE 303 (a) AND RULE 309 (a), LEA COUNTY, NEW MEXICO.

ORDER OF THE CONMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 22, 1961, at Santa Fe, New Mexico, before Elvis A. Utg, 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 10th day of April, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

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(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, Shell Oil Company, is the owner and operator of the Carl H. Livingston lease, comprising 320 acres in Sections 3 and 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant seeks permission to commingle the production from the Drinkard, Wantz-Abo, and Blinebry Oil Pools from all wells presently completed or hereafter drilled on said Carl H. Livingston lease, with the production from the various pools determined by subtracting the Blinebry Oil Pool production from the total commingled production and allocating the remaining production between the Drinkard and Wantz-Abo Pools on the basis of monthly well tests. Case No. 2220 Order No. R-1936

(4) That all wells on the subject lease producing from the Drinkard and Wantz-Abo Pools are marginal.

(5) That the Blinebry Oil Pool production should be continuously metered and should be limited to the allowable for that pool as shown by the Blinebry production meter.

(6) That the proposed installation as shown on Exhibit Nos. 2 and 4 in this case should be authorized, provided, however, that all production and test meters should incorporate a nonreset totalizer and should be calibrated against a test tank or a master meter.

(7) That inasmuch as an industry committee has been appointed to study all phases of commingling and to recommend minimum standards to prevent abuses thereof, it may be that this installation, at a later date, will have to be altered to conform to such standards as the Commission may prescribe.

(8) That the applicant further proposes to install an automatic custody transfer system to handle said commingled production.

(9) That the previous use of automatic custody transfer equipment, similar to that proposed by the applicant, has shown that such equipment is a reliable and economic means of transferring the custody of oil, and that the use of such equipment should be permitted, provided adequate safety features are incorporated therein.

IT IS THEREFORE ORDERED:

(1) That the applicant, Shell Oil Company, is hereby authorized to commingle the production from the Drinkard, Wantz-Abo, and Blinebry Oil Pools from all wells presently completed or hereafter drilled on the Carl H. Livingston lease, comprising 320 acres in Sections 3 and 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, with the production from the various pools determined by subtracting the Blinebry Oil Pool production from the total commingled production and allocating the remaining production between the Drinkard and Wantz-Abo Pools on the basis of monthly well tests.

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Case No. 2220 Order No. R-1936

PROVIDED HOWEVER. That this installation shall conform to Exhibit Nos. 2 and 4 in this case except that all production and test meters shall incorporate a non-reset totalizer and shall be calibrated against a test tank or a master meter.

PROVIDED FURTHER. That the production from the Blinebry Oil Pool shall be limited to the allowable for that pool as shown by the Blinebry production meter.

PROVIDED FURTHER. That it may be that this installation, at a later date, will have to be altered to conform to such standards as the Commission may prescribe.

PROVIDED FURTHER. That in the event any well on said lease becomes capable of producing top unit allowable from the Wantz-Abo or the Drinkard Pools, the applicant shall notify the Santa Fe office of the Commission at which time this case shall be reopened.

(2) That the applicant is hereby authorized to install an automatic custody transfer system to handle said commingled production.

PROVIDED HOWEVER. That the applicant shall install adequate facilities to permit the testing of all wells located on the above-described Carl H. Livingston lease at least once each month to determine the individual production from each well.

PROVIDED FURTHER, That in order to prevent the overflow and waste of oil in the event the automatic custody transfer system fails to transfer oil to the pipeline, the applicant shall add additional storage facilities from time to time, as it becomes necessary, to store the production which will accrue during the hours that said lease is unattended.

IT IS FURTHER ORDERED:

That all meters used in the above-described automatic custody transfer system shall be operated and maintained in such a manner as to ensure an accurate measurement of the liquid hydrocarbon production at all times.

That all meters shall be checked for accuracy at least once each month until further direction by the Secretary-Director.

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-4-Case No. 2220 Order Mo. R-1936

That all meters shall be calibrated against a master meter or against a test tank of measured volume and the vesulte of this cullbration their with the Commission on the Commission form entitled "Meter Test Report."

DOME at Santa Fe, New Maxico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

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U.L. Vartur, H. A. L. PORTER, Jr., Member & Secretary



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BEFORE THE GIL CONSERVATION COMMISSION SAMPA PE, MEM MERICO MARCH 22, 1961

EAAMINER HEARING

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Inc.		
DEARNLEY-MEIER REPORTING SERVICE		<pre>MASE 2220: Annihilation of Shall Oil Control for an example of the Rule 303 (a) and Rule 309 (a). : Applicant, in the above-styled cause, seeks : permission to commingle the production from : the Drinkard, Wantz-Abo and Blinebry Oil : Pools from all wells presently completed or : hereafter drilled on the Carl H. Livingston : Leese comprising 320 acres in Sections 3 and: h, Township 21 South, Hange 37 East, Lee : County, New Mexico, allocating the production from the various pools on the basis of : continuous metering of the Blinebry production and periodic well tests of the Wantz- Abo and Drinkard production. Applicant al- so seeks permission to instell an automatic : custody transfer system to handle said com- mingled production.</pre>
- ARN	NEW MEXICO	Elvis A. Utz, Examiner.
DE	QUE, NEW	<u>TRANSCRIPT OF PROCEEDINGS</u>
· .	ALBUQUE	MR. UTZ: The hearing will come to order. Case 2220.
	AL	MR. PAYTE: Application of Shell Oil Company for an ex-
		ception to Rule 303 (a) and Rule 309 (a).
		MR. SETH: Same appearances and same witness as 2218.
	۰ .	MR. PAYNE: Let the witness be sworn.

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PAGE	2

	R. L. SOMERMELL,
	called as a witness, having been previously duly swown, testified
	as follows:
	DIRECT EXAMINATION
	BY MR. SETH:
	Q State your name.
	A R. L. Somerwell, mechanical ongineer, Shell Oll Company.
	Are you familiar with the application in Case 2220?
	A Yes, sir, I am.
	Q Will you describe briefly what the application proposes'
	A Briefly we would like permission to commingle production
	from the Drinkard, Blinebry and Wantz-Abo oil pools presently com-
	pleted and hereafter drilled on the Carl H. Livingston Lease, al-
	locating the production from the various pools on the basis of co
	tinuous metering of the Blinebry production and periodic well tes
	of the Wantz-Abo and Drinkard production. Also permission to in-
	stall an ACT unit to handle this commingled production.
	Q Do you have a plat of the Livingston lease?
	A Yes.
ас, 26	(Whereupon, Shell's Exhibit No.)
ALBUQUERQUE,	was marked for identification)
	Q That has been marked Exhibit 2?
	A Referring to this Exhibit, it shows the extension of the
	Livingston lease. On this, the Livingston lease is outlined in

.



P.	AGE 🗦
0. Is it a fee lease?	
A Yes, sir, fee lease, approximately 320 acres.	
Q Royalty interests monthly?	
A Our records indicate they are monthly.	
Q Referring to this Exhibit 2, describe it generall	у.
A Right now we have completed the Blinebry oil well	s, one
Wantz-Abo well and five Drinkard, one Tubb gas and one Blin	ebry
gas well.	
Q Does the legend on the Exhibit show the well loca	tion?
A Yes, sir, depicted with the legend showing which	wells
are producing in which zone.	
\mathbb{Q} The little "A" and "D" is to show the Drinkard an	á Abo
and so forth?	
A Yes, sir.	
9. The dotted circles are proposed Blinebry location	.s ?
A Yes, sir. I might say, as I stated a while ago,	that a
the current status of this lease we anticipated a maximum o	f eigh
Blinebry wells, should the development be successful, five	Drink-
ard and abandonment of Wantz-Abo, maybe within three or fou	r
months, a very short time; within that time we would wind u	p with
five Drinkard wells and eight Blinebry wells and one Wantz-	Аво.
C Two gas wells are already commingled? Do you hav	e a
diagram of the facilities there?	
A Yes, sir.	

Yes, sir.

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(Thereupon, Shell's Exhibit No. 3 was marked for identification)



I This has been marked Exhibit No. 3. Referring to this Exhibit, would you show the flow through these proposed facilities?

Yes, sir. Starting at the top we show four Blinebry wells. We thought we would have four by the hearing. We only have two right now. Visualize, we may have eight wells coming into that header. They will produce into the Blinebry separator and be sentimmerly motored, and then be preduced into the treating system. At the lower separator it is the Drinkard and the Wantz-Abo, proposed for an interim period will be three or four months, and produce the five Drinkard wells and Wantz-Abo into one separator and determine the production by monthly well tests. They are all under an allowable. Both the Drinkard and the Wantz-Abo actually are too small to pressure up the amount of gas as of this minute. All three zones will be treated in common test separators. After a new well has been tested, they will be rerouted back to the correct production separator and by neumatically interlocked reroute valves which are fail-safe, normally closed, and are actuated. And this valve in the left portion of the diagram is a three-position control manual valve. Gas is rediverted to the top dotted line of the valve which opens the blocked zone on the valve and allows the fluid there from the test header to enter the test vessel and the Blinebry well will be discharged back. All zones will then be produced into the treating system and the storage tank, and then to the ACT unit to the Pipeline. The Drinkard and Wantz-Abo will be calculated by subtracting the Blinebry from the ACT, from the



DEARNLEY-MEIER REPORTING SERVICE Inc. Albuquerque, new mexico

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:	net pipeline production and then allocated to each well.
	9. How much is the Drinkard and Abo production of the pres-
	ent time, daily?
	A The Blinebry production is currently at $1/7$ barrels of
	oil per day and no water.
	Q Is that on four wells?
	a two flinewry wells. That header is misleading. We only
	have two wells completed right now in the Blinebry zone, but we
	anticipate a maximum of eight.
	Q What are the two wells that are completed?
	A Livingston 6 and No. 3433 are the two Blinebry wells.
	Q 96 barrels from both wells?
	A Yes, sir. Top allowable. Drinkard 45, oil, 500 barrel
	of oil, 5 barrels of water, all under allowable. Wantz-Abo, ll
	barrels per day and 8 barrels of water.
	Q You are metering the top allowable side of the facility
	A Yes, sir.
	Q You are computing the marginal wells?
	A All the wells that do have the total top allowable. Th
	shrinkage will be then minimized with the ACT units and produced
	through the test metering system and immediately goes to the pipe
	line. I might also add the maximum production respecting the
	Blinebry at the present time is 100 barrels of Drinkard and 375
	barrels of Blinebry, for a 47% barrels per day total of peak.

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Approximately 525 barrels of storage, which gives us 21 hours of



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surge capacity. Our lease operator will be in attendance all of sixteen hours a day.

Your note on Exhibit Mo.3. Mill you explain that? A Mell, that is an explanation of the three-position control values. The value in one position will open the two-motor values to the Blinebry, and in the other position will open the motor values to the Drinkard and Wantz-Abo.

Q What is the purpose of this?

A To prevent accidental commingling. In any type of failure, the valves will close, should there an any accidental commingling.

TR. UTZ: Did you cover any calibration method you plan to use?

A Yes, sir. We plan to test all the Blinebry meters by producing it to the 500-barrel storage tank, producing all the Blinebry wells into the storage tank. I am sorry, just a minute. We plan to derive at the five Blinebry wells through the test separator and on into the storage tank will develop a meter factor, and knowing this, we can produce all the wells, all the Blinebry wells through the test separator and back through the Blinebry volume meter and determine a factor for the Blinebry meter for correct allocation.

Q Are the gravities from the oil from the various zones all below forty degrees?

Yes, sir. Mo change in pressure valve set.



DEARNLEY-MEIER REPORTING SERVICE, Inc.

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		page 7
		Do you propose to add at the and of this sytem an ACT
	unit?	
	1	Mos, siv, to more accuvately handle production from all
1699	zones.	
PHONE CH 3-6691	0	Do you have an Exhibit showing that?
PHONE	A	Yos, sir.
		(mereopon, Sheri's Exhlort 40. 4 was marked for identification)
	Q	Is this proposed ACT unit the same as you testified to in
	Case 221	
	Α	Identical to Case 2213 and 19, yes, sir.
		MR. SETH: We would like to adopt the testimony from 2218
	on the A	CT unit in this case, if we might.
		MR. UTZ: The Exhibit shown in Case 2220 is exactly the
	same as	shown in Case 2218 and the operation thereof is identical?
	A	Yes, sir, only the names have been changed.
		MR. UTZ: Let the record show the testimony pertaining
o	to ACT s	ystem, only, in Case 2213 will be incorporated into this
MEXIC	case.	
ALBUQUERQU, NEW MEXICO	Q	Will this produce a closed system similar to your Pearl-
JQUERQI	Queen an	d the two cases, 2218 and 2219, and will that result in
ALBI	conserva	tion and prevention of waste?
	A	Yes, sir. It will eliminate two tank batteries that have
	to be ma	nually gauged and accounted for, and this will eliminate
	hand gau	ging. Everything will be metered.



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	Do you expect comparable savings in waste and
1_	Yes, siv.
Q.	You do expect you will effect comparable savings?
Å	Yes, sir.
Q	Will the pipeline take the oil through these facilities?
A	Yes, sir.
	was marked for identification)
Cy,	Does this telegram refer to the ACT facilities that you
have des	cribed in Exhibit 4 of this case?
А	Yes, sir, with these specifications.
	MR. SETH: We would like to ask that the Exhibits 1 through
4 be admi	itted, Mr. Utz.
	MR. UTZ: Without objection, Exhibits 1 through 4 will be
admitted	into the record.
	(Whereupon, Shell's Exhibits 1 through 4 were received in evi- dence)
	MR. SETH: That's all the direct testimony.
	MR. UTZ: Any questions?
	CROSS-ENAMI MATION
BY MR. P.	AYNE:
G,	If there is any shrinkage involved here, under your pro-
-3	
	t would be charged against the Blinebry zone, would it not?
	t would be charged against the Blinebry zone,would it not? No, sir. I believe it was charged to the Drinkard zone.



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Yes, sir.

Now, how do you propose to determine the -- let's say the Drinkard and leave the Wantz-Abo -- how do you propose to determine the production from the Drinkard?

A By subtracting the Blinebry meter reading from the ACT meter reading, and any shrinkage you would make up from the Drinkard and Wantz-Abo rather than the Blinebry.

Q You would run your allowable through the Blinebry?
A No, sir, we couldn't do that.

Q Then, you are going to be charging the shrinkage sgainst the Blinebry if you are going to run your allowable through the Blinebry meter?

A I don't think we can say all the shrinkage would be charged to it.

Q Ordinarily, don't you go by what is actually sold to the pipeline rather than the meter reading? Say your meter head read 35, but show on your shrinkage you actually sold 40, wouldn't you go ahead and produce another five to make up what had shrunk? Would you go ahead and produce that, going by what was sold as being the important factor?

A No, sir, we couldn't. We would take our meter reading on our Blinebry meter and once it had reached volume production we would shut-in the lease.

Q For the time being, at least, as soon as you produced 96 barrels, well, putting it on a daily basis, as soon as you produced



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PAGE 10 95 barrels, then your Blinebry would be shut-in? <u>A</u> 94, yes, sir. \odot 94. Would you be willing to use a nonreset meter? Would we be willing to use a nonreset meter? Δ <u>,</u> Yes, sir. Yes, sir, we would. Ā MR. PAYNE: Thank you. BY ME MIMMIT Q, Mr. Somerwell, I think I followed you, I am not sure, in determing the factor for the Blinebry metering pot. First of all, you run your four Blinebry wells through the three-phase test metering separator directly to the 500-barrel storage tank? A Yes, sir. 0 Then you would determine how much oil was in the tank and compare that with the reading on the motor run? А Yes, sir. ୍ୟ Then you will establish a factor? A Yes. Q Then, to determine the factor on the Blinebry metering pot you would run the oil through the three-phase test metering separator through the meter run downstream from the separator, back up through the Blinebry oil and gas separator and then through the

Blinebry volume metering pot and compare the meter reading on the meter down at the test metering three-phase separator?

A Yes, sir.

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This oil having gone through enother separator, might not a second separator remove a little more cas, go through double ceparation then?

A Yes, sir. There's a slight drop there, probably 500 - Q Wouldn't that affect the meter factor that you would de rive on your second meter?

A It would affect it slightly, but we are not trying to factor the accuracies on commingling zones that we try to maintain. On commingling leases, we are trying to accurately determine it, but not within two-tenths of one percent. So this will be smaller in developing the meter factor for the Bline bry production.

So these motor values operated by the three-position gas control values are normally closed?

A Yes, sir.

Q And then you decide you want to test a Blinebry well, you put this three-position control value in a position that causes the two motor values on the Blinebry well to open?

A Yes.

Then the values of Drinkard and Wantz-Abo remain closed?
 A Yes, sir.

C I have heard in some cases corrosive gas might affect these three-way control valves, on these that you have got installed here, and may cause a leak of the gas as a result of corrosion, on the left the gas pressure goes to all four of the gas



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A I haven't on this particul surly here, this type of a value. Actually, at the beacher, there is a seal that is beaken, i could believe corresion would cause it.

1 This is a moto ' valve in there?

A Yes, sir.

S What opens the proper pouter?

A Both are bloeding off the gas on both sides of the values, are to bleed position.

C Then you don't know if corresion would present a problem that might cause a mas leak?

A Mo, sir, I don't know.

Is there a wax or any kind of chemical inside that value?
 A There are O-Ring seals that separate the portion between the value.

Q Now, in order to determine your Blinebry value metering pots factor without having to shut-in these other wells, you would have to have another tank on here, wouldn't you?

A Yes, sir, we would.

R How many tanks are on this lease at the present time?

A I believe two 500's. Two whole batteries would be

actually four 300-barrel tanks.

Sould there be another tank available for determining moter factors?



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		- *	Yes, sir, it's available in your collection of used
-	sal	vage.	
	2	C_{i}	Didn't you state you hope to have eight Blinebry wells
1099	her	e?	
LC. PHONE CH 3-6691		Č.	Yes, sir.
NC. PHONI		Q,	Then your present wells are making a hundred barrels a
ы. Г.	day	?	
SERVICE, Inc.		A .	And Mantz Abe is making a total of one barrel from two
ERV	mar	ginal	wells.
	-	Ċ,	What is the allowable on the Blinebry wells?
EY-MEIER REPORTING		А	375. Total of 475.
DRT		C,	You would have a total of 476 barrels of allowable?
ЕР(<u>P</u>	Yes, sir.
8 <i>R</i>		C?	You also have a total of 420 barrels of available stor-
IEI	age	?	
-ME		Å	Yes, sir. You might need another tank. We have 21 hours
DEARNLEY- albuquerque, new mexico	sur	ge caj	pacity right now. And the attended hours would be sixteen
	hou	rs,aga	ain, nearly a day's storage at maximum development.
			MR. MUTTER: I believe that is all. Thank you.
UE, NE	BY	MR. M	DRRIS:
UQUERO	•	0	Mr. Somerwell, you might have covered this, but could you
ALB	exp	lain a	again to me the purpose of the line running directly off
	to	the r	ight of your metering separator? In the center, right in

the center?

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A That is for testing the metering separator into the storage



PAGE 2.0

tonk, the sugre tank. In other words, the metering can be produced indirately from the sugge tank and bypace the treating system and accurately gauge the amount of oil.

4 Are any safeguards proposed to keep the production from running directly into your storage tank rather than into your Blinebry metering system?

A This value will be closed; the value, that will be closed.

S Is it a manual valve?

A Yes, sir.

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MR. WITTER: When is that value open, only when you are determining the factor for the three-phase separator?

A Yes, sir, that is the only time it will be open. And as I understand, the Blinebry is clean, that would not have to be metered, the value will be added to the Blinebry meter reading.

MR. MUTTER: If the Blinebry doesn't make quality oil, you wouldn't be able to use that?

A Yes, sir, you can use the system.

MR. MUTTER: But you will be putting water into it? Yes, sir.

(By Mr. Horris) Did you have a meter in that line?

A Yes. sir, if the metering separator is metering it.

Q Not in that line itself you wouldn't have any record of the production it would pass through, that line or which zone it right be coming, would you?



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A To printed record or such as that, no, sin. Of being recorded on the metering separator. To reset each set, it would have to be monumbly recorded.

M. WITER: The reset counter gauge is a recapitulated gauge and does not have to be reset?

A No, I'm not too sure whether it does or not. I'm sure we could acquire it by --

MR. MUTTER: If the counter that can be worth, the club, go back to zero?

A I think only one reading.

MR. HORRIS: That's all I have.

BY MR. PAYTE:

Q What would be the disadvantage of eliminating that line and running it back through your Blinebry separator?

A The line from the metering separator to the surge tank?
 Q Yes.

A Well, we could conceivably show that that creates a problem in that we need to bypass around the treating system because of intermittent loss, in trying to gauge your tanks accurately. The water and oil level fluctuate somewhat, and I don't think we could control it.

Q What would be another alternative?

A To install a meter proving loop, and use a master meter would be another alternative, probably.

2 The three-position control value we are referring to is



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manually operated volve?
i Yog, sir.
) Where is the mas source for it?
A We will take it off the separators, one of the separa-
tors.
Q Do you have a record of the Drinkard wells, what their
individual average production is?
 A . These are the five Drinkend velle "II" one is of the
barrels of oil and five barrels of water. "L" two is eight bar-
rels of oil, no water. "L" five is twelve barrels of oil and no
water. "L" seven is 44 barrels of oil and virtually no water;
two-tenths cut, and "L" eight is 26 barrels of oil and no water.
Q What would be the top allowable for the Drinkard wells?
A 62 barrels per day.
Q Do you anticipate the No. 8 improving in its ability to
produce in any manner?
A No, sir. No. 7 is 44 barrels.
۵ Which is the 44-barrel well?
A "L" 7.
Q No. 9? No. 3 is 26?
A Yes, sir. That is a two-phase metering test separator.
We will be cutting present oil on one side and metering clean water
on the other side on the allocation of it.
MR. UTZ: Any other questions of the witness?
MR. PAYME: I would like to clarify one thing.

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BY IN. PAYE: You are going to have a total allowable of 176 a day? Å That is total to the three zones. Ċ, On your ACT your set stop will be set at that figure? Yes, sir. Hell, more than likely the set stop counter Δ will be at the allowable, we are under the allowable on the Drinkard wells, it will be somewhat higher than 476. You propose to put the Blinehny set stop countor on the Q. allowable if you go to your Blinebry zone? We anticipate or propose to go to the Blinebry set stop Α counter. 0 What objections do you have to running a Blinebry allowable there at the Blinebry meter? 4 Now, the monitors are limiting production from the Blinebry zone, so the allowable is not producing more than the Blinebry allowable through the Blinebry metering pots. Our lease operator will be instructed to shut the lease down once it has been reached

on the month.

MR. UTZ: Any other questions?

A I might say this system of separately metering each zone will be approximately 34,700.00 cheaper for us, it will save us that much money.

Q Mr. Somerwell, what is the flume on your line? Will you explain that?

A That is the point at which the oil and water actually



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I, PATRICIA GOMIA, Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and Feduced to typewritten transcript under my personal supervision, 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, the <u>15th</u> day of April, 1961, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

atricia C NOTARY PUBLIC

My Commission expires:

June 19, 1963

I do hereby certify that the foregoing is a complete record of the unconsidings in the Examiner hearing of the second line 2.2.20 heard by no crown and the second line 2.2.20 heard by no crown a

