

ase Replicition, Transcript, Smill Exhibits, Etc.

### DOCKET : EXAMINER HEARING - THURSDAY, FEBRUARY 23, 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 2193:

Application of Newmont Oil Company for two unorthodox oil well locations and for one unorthodox location for an injection well. Applicant, in the above-styled cause, seeks approval for two unorthodox oil well locations, and for one unorthodox water injection well location in the Loco Hills Waterflood Project, Eddy County, New Mexico. The proposed locations for the producing wells and injection well are respectively as follows:

Yates A No. 14 Well, 1980 feet from the North line and 1310 feet from the East line of Section 6, Township 18 South,

Brigham No. 5 Well, 1320 feet from the South line and 990 feet from the East line of Section 31, Township 17 South, Range 30 East.

Brigham No. 4 Well, 1320 feet from the South line and 5 feet from the East line of Section 31, Township 17 South, Range

CASE 2187:

Application of Continental Oil Company for a 400-acre nonstandard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 400-acre non-standard gas proration unit in the Eumont Gas Pool comprising the \/2 W/2 of Section 26, the E/2 E/2 of Section 27, and the E/2 SE/4 of Section 22, all in Township 20 South, Range 37 East, Lea County, New Mexico. Said unit is to be dedicated to the SEMU Eumont Well No. 65, located 2363 feet from the South line and O feet from the West line of said Section 26.

CASE 2188:

Application of Continental Oil Company for an exception to Rule 26 (a) of Order No. R-1670. Applicant, in the abovestyled cause, seeks an exception to Rule 26 (a) of Order No. R-1670 for the reclassification to a Tubb gas well of its State 10 Well No. 3-D, located 990 feet from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico

6-61

-2-Docket No. 6-61

CASE 2189:

Application of Continental Oil Company for two non-standard gas proration units. Applicant, in the above-styled cause, seeks the establishment of two non-standard gas proration units in the Eumont Gas Pool, Lea County, New Mexico, the first being a 480-acre unit consisting of the S/2 and NE/4 of Section 24 to be dedicated to the SEMU Eumont Well No. 67 located 1980 feet from the South and West lines of said Section 24 and the second being a 280-acre unit consisting of the NW/4 of said Section 24 and the S/2 and NW/4 SW/4 of Section 13 to be dedicated to the SEMU Eumont Well No. 69, located 1980 feet from the North and West lines of Section 24, all in Township 20 South, Range 37 East.

CASE 2190:

Application of Continental Oil Company for a 560-acre nonstandard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 560-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the W/2 of Section 14, the E/2 E/2 of Section 15 and the E/2NE/4 of Section 22, Township 20 South, Range 37 East, Lea County, New Mexico. Said unit is to be dedicated to the SEMU Eumont Well No. 66, located 1980 feet from the South line and 660 feet from the West line of said Section 14.

CASE 2191:

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 Empire-Abo Pool production from all wells presently completed or hereafter drilled on its State S-30 lease comprising in pertinent part the NW/4 and NW/4 SW/4 of Section 30, Township 17 South, Range 29 East, Eddy County, New Mexico.

CASE 2192:

Application of Amerada Petroleum Corporation for permission to commingle the production from two separate leases. Applicant, in the above-styled cause, seeks permission to commingle the Blinebry Oil Pool production from all wells presently completed or hereafter drilled on its State "D" lease, consisting of the NW/4 and its State "H" lease, consisting of the W/2 SE/4, both in Section 1, Township 20 South, Range 36 East, Lea County, New Mexico.

CASE 2194:

Application of Sunray Mid-Continent Oil Company for an oiloil dual completion utilizing two strings of casing. Docket No. 6-61

-3-

CASE 2194: (Cont.)

Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "Y" Well No. 2, located in Unit A, Section 32, Township 18 South, Range 31 East, Eddy County, New Mexico, in such a manner as to permit the production of oil from the Culwin-Yates Pool and the production of oil from the North Shugart Queen-Grayburg Pool through parallel strings of 2 7/8-inch casing cemented in a common well bore.

CASE 2195:

Application of Gulf Oil Corporation for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the production from an undesignated Abo pool from all wells presently completed or hereafter drilled on the Lea-State "LB" Lease comprising the NW/4, N/2 SW/4 and SW/4 SW/4 of Section 20, Township 17 South, Range 36 East, Lea County, New Mexico.

CASE 2196: Application of Gulf Oil Corporation for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle, without separate metering, the production from the Drinkard and Langlie-Mattix Pools from all wells presently completed or hereafter drilled on the Ollie I. Boyd Lease, comprising the S/2 SW/4, NE/4 SW/4 and SW/4 SE/4 of Section 23, Township 22 South, Range 37 East, Lea County, New Mexico.

<u>CASE 2197</u>: Application of Tennessee Gas and Oil Company for the promulgation of temporary special rules and regulations governing the Totah-Gallup Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order promulgating temporary special rules and regulations governing the Totah-Gallup Pool, San Juan County, New Mexico, including a provision for 80-acre proration units.

CASE 2198:

Application of H. S. Moss for permission to commingle the production from three separate pools and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to commingle the production from the Southwest Gladiola-Wolfcamp Pool, the Southwest Gladiola-Devonian Pool and an undesignated Pennsylvanian Pool from all wells presently completed or hereafter drilled on its D. P. Peck Lease comprising the W/2 of Section 26, Township 12 South Range 37 East, Lea County, New Mexico. -4-Docket No. 6-61

CASE 2198: (Cont.)

Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.



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# CONTINENTAL OIL COMPANY

825 PETROLEUM BUILDING ROSWELL, NEW MEXICO

WM. A. MEAD Division Superintendent of Production New Mexico Division

January 25, 1961

Case 2188

New Mexico Oil Conservation Commission Box 871 Santa Fe, New Mexico

1000000000

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

Gentlemen:

Re: APPLICATION OF CONTINENTAL OIL COMPANY FOR AN EXCEPTION TO RULE 26 (a) OF THE SPECIAL RULES AND REGULATIONS FOR THE TUBB GAS POOL CONTAINED IN ORDER NO. R-1670 FOR THE RECLASSIFICATION TO A TUBB GAS WELL OF ITS STATE 10 NO. 3-D, LOCATED IN SECTION 10, T21S, R37E, NMPM, LEA COUNTY, NEW MEXICO

Please find attached three copies of the subject application by Continental Oil Company to reclassify its State 10

No. 3-D to a Tubb gas well.

We respectfully request that this matter be set for hearing at your earliest convenience.

Yours very truly, Nº- G. Mad

WAM-sk Attachment



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2-20-61	24	55	8	900	16,364	42.9	
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BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION CASE NO. 2188

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Exhibit No. 3

GOVERNOR Edwin L. Mechem Chairman

## State of New Mexico Oil Conservation Commission

LAND COMMISSION ER E. S. JOHNNY WALKER MEMBER



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

Mr. Jason Kellahin Kellahin & Fox Box 1713 Santa Fe, New Mexico 2188 Case No. Order No. Applicant: Continental Oil Company

Dear Sir:

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

Re :

Very truly yours, A. L. PORTER, Jr.

Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs	OCC	*		
Artesi		C		
Aztec	OCC		_	

OTHER

Cure 2185 Keund 2-28-61 Rec. 3-8-61 1. Res. Deniel of Cont. case to eclassify their State 10 # 3D, 980/N, 840/W 10-\$15-37E from an ail will to a gue well, an exception to Rule 26 (A) \$ R-1670. 2. Destimon revealed that on tent. the well peroduced at a max. Ho well peroduced at a max. Ho.R. P. 18, 211 weth a manguest of 42.9. A well of these characteristed tis normally considered to be and oil well in any port of A. The. B. Ske operator problem can be remel. ied according & testing by productions Thud De. P.S. The sperator could include pur luster from the well by classific-ation as a gas well.



New Mexico Oll Conservation Commission Page 2

7. That in order to continue commandial production, applicant proposes to reclassify the well as a gas well and restore its former 160-acre gas promation unit for promation purposes.

8. That the granting of this exception is in the interest of preventing wasts and protecting correlative rights.

Wherefore, applicant respectfully prays that this matter be set for hearing before the Commission's duly appointed examiner, that appropriate notice thereof be given and that upon hearing, an order be entered granting applicant an exception to Hule 26 (A) of the special rules and regulations for the Tubb Gas Fool, contained in Order R-1670, as described above.

> Respectfully Submitted, CONTINENTAL OIL COMPANY

Wm. A. MEAD Division Superintendent of Production New Mexico Division

WAM-DFW

RECEIVED New Maxica, Division

JAN 2 3 1960

BEFORE THE OIL OF LEAVEN ON COMPLEXING SON

IN THE MATTER OF THE AFFLICATION OF CONFIDENTAL OIL COMPANY FOR AN EXCEPTION TO BULE 26 (A) OF THE SPECIAL FULFO AND REGULATIONS FOR THE TUBB CAS FOOL CONTAINED IN ORDER NO. H-1670 FOR THE RE-CLASSIFICATION TO A TUBB CAS VELL OF ITS STATE TO NO. 3-D, LOCATED IN SECTION 10, T-218, R-37E, NMPEL, LEA COUNTY, NEW MEXICO

Case 2188

#### <u>A F F L I C A T I O N</u>

Comes now applicant, Continental Oil Company, and recuests exception to Rule 26 (A) of the special rules and regulations for the Tubb Cas Pool, contained in Order K-1670, for the reclassification to a Tubb gas well of its State 10 No. 3-D, located in Section 10, T-21S, R-37E, NMFM, Lea County, New Mexico, and in support thereof would show:

3. That applicant is the operator and co-owner of the - State 10 Lease, consisting of the W/2 NW/4 Section 10, T-21S, K-37E, Lea County, New Mexico.

2. That applicant drilled its No. 3-0 well on said lease at a location 990 feet from north line and 840 feet from west line of said Section 10, in 1953, and dual completed said well in the Drinkard and Tubb formations on May 5, 1955.

3. That a standard 100-acre gas proration unit consisting of NT/A of said Section 10 was established for said well on September 15, 1955.

h. That the Tubb completion of the said well was re classified as a Tubb oil well on September 18, 1959, at which time
the well was producing with a low gas-til ratio.

5. That the well is correctly producing liquids ranging in gravity from 42 to 45 degrees A.P.L., with a gas-oil ratio of approximately 20,000 p. ft. per barrel.

6. That the producing characteristics of said well are such that it is incapable of concercial production under an oil well classification.

#### REFORE 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 FURPOSE OF CONSIDERING:

> CASE No. 2188 Order No. R-1909

APPLICATION OF CONTINENTAL OIL COMPANY FOR AN EXCEPTION TO MULE 26(A) OF ORDER NO. R-1670, TUBE GAS POOL, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE CONSISSION

#### IX THE COMMENSION:

This cause came on for hearing at 9 o'clock a.m. on February 23, 1961, at Santa Fe, New Maxico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Counission of New Maxico, hereinafter referred to as the "Counission," in accordance with Rule 1214 of the Counission Rules and Regulations.

NOW, on this 22nd day of March, 1961, the Counission, a quorum being present, having considered the application, the evidence adduced, and the succemendations 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, Continental Oil Company, is the owner and operator of the State 10 Well No. J-D, located 990 feet from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 Hast, MON, Les County, New Mexico, which well is a dual completion in the Drinkard Poel and the Tubb Gas Pool, produced through 2 3/8-inch and 1-inch tubing respectively.

(3) That the applicant seeks the reclassification of said State 10 Well No. 3-D from an oil well to a gas well as an exception to Rule 26(A) of the rules governing the Tubb Gas pool as set forth in Order No. R-1670.

(4) That said Order Bo. R-1670 provides that a well in the Tubb Gas Pool which produces hydrocarboas possessing a gravity of 45° API or less shall be classified as an oil well.

(5) That during daily tests taken on the subject well in

-2-CASE No. 2188 Order No. R-1909

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February, 1961, the highest gravity reflected was 42.9° API and the highest gas-oil ratio was 18,431.

(6) That the characteristics of the subject well as reflected by the daily tests are those generally possessed by an oil well.

(7) That the applicant's problem in attempting to produce the subject well as an oil well is that it loads up with liquids when produced through 1-inch tubing.

(8) That the evidence establishes that no such problem is encountered when Tubb production is through 2 3/8-inch tubing.

(9) That reclassification of the subject well based on present conditions is very likely to impair correlative rights, and, for this reason, the subject application should be demind.

IT IS THEREPORE ORDERED:

That the applicant's request for reclassification of its State 10 Well No. 3-D (990 feet from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 East, MMPH, Tubb Gas Pool, Les County, New Mexico) from an oil well to a gas well as an exception to Rule 26(A) of Order No. R-1670 be and the same is hereby <u>denied</u>.

DONE at Santa Fe, New Hariso, on the day and year berainabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

REVIN L. MECHEN, Chairman

A. L. PORTER, Jr., Monitor & Socretary

	PAGE
	BEFORE THE
	OIL CONSERVATION COMMISSION
	Santa Fe, New Mexico
	February 23, 1961
	EXAMINER HEARING
1699-	
E.	IN THE MATTER OF:
C.	Application of Continental Oil Company for an )
	exception to Rule 26 (a) of Order No. R-1670.
	Applicant, in the above-styled cause, seeks an )
Ē	exception to Rule 26 (a) of Order No. R-1670 for ) CASI
JI.	the reclassification to a Tubb gas well of its ) 2186
	State 10 Well No. 3-D, located 990 feet from the ) North line and 840 feet from the West line of Sec- )
E	tion 10, Township 21 South, Range 37 East, NMPM, )
Ś	Lea County, New Mexico.
<u>]</u>	
NI.	BEFORE:
RJ	Elvis A. Utz, Examiner
Q	
REPORTING SERVICE, Inc.	TRANSCRIPT OF HEARING
	MR. UTZ: Case 2188.
IEH	MR. PAYNE: Case 2188: Application of Continental O
DEARNLEY-MEIER new mixico	Company for an exception to Rule 26 (a) of Order R-1670.
EY.	MR. KELLAHIN: Jason of Kellahin & Fox, Santa Fe, New
N	Mexico, representing the Applicant. I will have one witness.
4R ixico	
M H	(Witness sworn.)
D Dur, #	VICTOR E. LYON,
DEARalbuquerque, new mixico	called as a witness, having been previously duly sworn, testific
ALB.	as follows:
	DIRECT EXAMINATION
	BY MR. KELLAHIN:
	Q Would you state your name, please?

PAGE 2 Victor E. Lyon. A By whom are you employed and in what position? Q Continental Oil Company as District Engineer in Eunice, Α New Mexico. 3-6691 Have you previously testified before the Oil Conser-0 £ PHONE vation Commission as a Petroleum Engineer? Inc. Yes. А REPORTING SERVICE, MR. KELLAHIN: Witness' qualifications are acceptable? MR. UTZ: Yes. (By Mr. Kellahin) Mr. Lyon, you are familiar with the Q application of Continental Oil Company in Case 2188? Yes sir. А Would you state briefly what is proposed in this appli-Q cation? **DEARNLEY-MEIER** This is Continental Oil's application for an exception А to Rule 26 (a) for the special rule and regulations for the Tubb gas Pool for the reclassification of its State 10 Well No. 3-D as a Tubb gas well. MEXI What is the location of this well? Q NEW It is located 990 feet from the North line and 840 feet Α ALBUQUERQUE, from the West line of Section 10, Township 21 South, Range 37 East. (Marked Applicant's Exhibit Numbers 1, 2 and 3 for identification.) Referring to what has been made Exhibit Number 1, would Q vou discuss that Exhibit?

**F** 

		PAGE 3 A Exhibit Number 1 is a location and ownership plat show	
		the blace to lease on the surrounding area. It chouse the	i
e		- case outlined in red, and it shows the proration unit thick a	ite ad
	3-6691	been assigned to the well which is outlined in green.	au
	Ð	Q Is that a gas proration unit?	
nc.	PHONE	A Yes sir.	
E, I	*	Q The area outlined in green?	
EY-MEIER REPORTING SERVICE, Inc.		A Yes sir, a standard gas proration unit.	
SER		Q You say the lease is outlined in red?	
5		A Yes sir.	
TIN		Q Has the acerage outlined in green been unitized for gas	
OR		production from this well?	
REF		A Yes, it has.	
R		Q Referring to what has been made as Exhibit Number 2,	×-
EIE		would you discuss that?	
Y-M		A It is a schematic diagram of the present application of	
ILE	- 1	were when it was originally dual-completed in 1955	
DEARNLI new mexico	¢	completed in such a manner that the Drinkard oil production lie	
DE/	ſ	routed through the two and three-eights inch tube and the rout	
Inque,		substitution was produced through the tubing casing appulue	
ALBUQUERQUE,		it became apparent that the well was loading up with finit	
•	<b>[</b> ]	merciore, we pulled the rods and pump out of the tubing for the	
		the Drinkard and set a tubing valve and opened the	
		leeve valve to permit the Tubb gas production to be produced	
	[th	arough the tubing. It was produced in this manner for several	

**X** 

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months. It became apparent that the tubing would enable the well to produce more efficiently. Therefore, in 1959, the well was kilstand led, and one-inch tubing was installed as a syphon strain. Then the well was swabbed off through the two-inch tubing, and an attempt was made to produce the well through the one-inch tubing. However, an accumulation of water in the well reservoir caused the one-inch tubing to load up completely so that it had insufficient pressure to produce. We continued production through the two-inch tubing for several additional months. After several months, we attempted again to produce the well through the one-inch tubing, and we were successful in doing so.

3-6691

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Inc.

DEARNLEY-MEIER REPORTING SERVICE,

XIW

MEN

**LBUQUERQUE** 

It was then decided to return the Drinkard forms to production so we entered the well and attempted to close the sleeve valve; however, the seals on the sleeve valve failed, and it was necessary, after we had removed the tubing plug, to run a knot and Kobe Packer assembly. After we had installed this equipment, we ran a Packer leakage test which was successful, which indicated we had no communication between zones. We then installed a pump with mechanical holddown, and we are presently producing the Drinkard production through the two and three-eights-inch tubing and the one-inch tubing.

MR. UTZ: Were they both flowing?

MR. LYON: No sir, the Drinkard was not.

Q (By Mr. Kellahin) Referring to what has been made as Exhibit Number 3, would you discuss that Exhibit?



PAGE 4

PAGE 5

A Exhibit Number 3 is a tabulation of well tests, data of which we have secured on 24 hour basis. At the last official gas survey, the well tested with the gas-oil ration of 20,000 cubic feet per barrel, and the limited gas-oil ration was such that the well's allowable was reduced to 6 barrels a day. At this rate of production, we are unable to keep the well unloaded. The gravity of the oil was such that we felt we needed test information too on which to base our recommendations to the Commission. We therefore requested permission to secure a testing allowable, and during the days listed on Exhibit Number 3, we tested the well, measured the oil, water, and gas and the gravity of the fluids collected on the Separator as Exhibit Number 3 indicates.

The gas-oil ration adds to 7,902 to 18,431. The liquid ranges from 39.8 to 42.9.

Q There has been a tendency of the apparent gravity for the liquid to increase?

A It fluctuates widely. The information which was used for the preparation of the application was based on the three most recent ones then available from runs from the tank or the pipeline. We have one for the liquid production which was running 45 degrees gravity.

Q You are familiar with the provisions of the Commission's Order R-1670, are you not?

A Yes sir.

3-6691

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Inc.

DEARNLEY-MEIER REPORTING SERVICE,

NEW MEXICO

ALBUQUERQUE,

What is the basis for the classification of an oil well

PAGE 6 or gas well under that order? The gas well is a well with liquid hydrocarbons which Α have a gravity of not less than 45 degrees in API. Then at the present time, with the gravity of 42.9, this 0 3-6691 could not without an exception be classified as a gas well, is that 3 correct? DEARNLEY-MEIER REPORTING SERVICE, Inc. That is right. A Has the well gone from a gas well classification to an 0 oil well classification? Yes, it has. А Is this a situation which is common in this particular Q area? It is not wide spread, but it occurrs fairly commonly Α throughout. Has the Commission granted an exception similar to the Q one you are seeking here within the area of this well? It is my understanding that an exception was granted for Α their State No. 11 which is located on the lease directly south MEXI of our State 10. NEW If the application is not granted, in your opinion, will Q ALBUQUERQUE, that result in waste from the reservoir? Yes, it will require either -- if we abandon the Drink-Α ard so that we can produce through the two-inch tubes or tubing or the loading up of the Tubb Zone -- it will no longer produce. Would that constitute a loss of gas at that reservoir? Q.

PAGE 7 And liquids, yes sir. A What kind of line pressure will you be producing into, Q Mr. Lyon? There is a 250 pound connection available. Α 3-6691 Do you believe that the well will produce satisfactorily Q Đ HONE against a 250 pound line pressure? Α Yes, I do. REPORTING SERVICE. Will the well make its allowable on the 260-acre unit? 0 Α During the test, which we have just conducted, the well produced at a rate of 890 MCF per day which is above the daily allowable for the Tubb Pool. In the event the Commission grants that application, Q what volumes of liquids do you anticipate will be produced? Based on the information here, I would estimate the Α **DEARNLEY-MEIER** liquid production to be 30 to 35 barrels per day. Were Exhibits 1, 2 and 3 prepared by you or under your Q supervision? А Yes sir. MEXICO MR. KELLAHIN: At this time, I would like to offer in NEV evidence Exhibits 1, 2 and 3. ALBUQUERQUI MR. UTZ: Without objection, Exhibits 1, 2 and 3 will be entered into the record. MR. KELLAHIN: That is all the questions I have. CROSS EXAMINATION BY MR. UTZ:

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PAGE 8 Mr. Lyon, the problem you have now with this well-is-that it's producing as an oil well, right? А Yes sir. And it's not able to produce its allowable? 0 It can produce its allowable, but at the restrictions A 3 listed on the allowable by the limited gas-oil ratio, the allow-Inc. able is insufficient to allow the well to unload the fluids. DEARNLEY-MEIER REPORTING SERVICE, So in effect, if this is granted, you will be able to Q produce a gas allowable as well as a considerable amount of liquids? А I don't believe that is uncommon in that type. On this test, are producing anywhere from 50 to 123 0 barrels of oil in a 24 hour period? Yes. А And anywhere from 900 to around 972 MCF with gas? O Correct. Α As a gas well, in the Tubb Pool, how much gas will you 0 be allowed to produce? As I recall the allowable for the Tubb averages, in the A MEX range of 500-600 MCF per day for a 160-acre unit. NEV So that your statement of a moment ago that you believe Q the oil incidental of this gas will be around 35 barrels? Yes sir, you will note that the test on February 10 for А the oil produced was a 123 barrels of oil after the well had been shut in for generally two weeks. So the net affect of this request is that you will be

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		PAGE 9
		able to produce more gas and slightly less oil?
		A Then it is as an oil well.
		Q Yes, as an oil well?
	16	A Yes sir, that is right.
	PMONE CH 3-6691	MR. UTZ: Any more questions of the witness?
	HONE	CROSS EXAMINATION
Inc.	ā	BY MR. PAYNE:
SERVICE,		Q Mr. Lyon, do you think the gravity figure which we
RV		use as a definition, the dividing line between oil and gas wells
		in the Tubb, is too high, generally; in other words, do you think
REPORTING		45 degrees API is too high to use as a dividing line?
RT		A well, I am not certain in a reservoir of this type; that
EPO		is, the best way to divide it, the gravities of liquid produced in
		this Pool vary very widely.
IER		Q Do you consider this to be an associated reservoir?
Y-MEIER		A Well, to be frank, I am not sure what is going on in
EY		this reservoir. It's the most unusual reservoir most wells pro
DEARNLE	8	duce liquid, and the ratios vary very widely, and the liquid gravi
EAI	W MEXICO	varies very widely. There have been some wells where it was ob-
Q	ALBUQUERQUE, NEW	served that gas-oil fluctuation on the producing rate of the well,
	UQUER	but I don't believe this consistently true.
	ALI	Q Did I understand you to say that at one time you pro-
		duced the Tubb through the two and three-eights inch tubing?
		A Yes sir.
		Q Did you have this problem of loading up at that time?

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PAGE

		the in producing through the two and
۲		A No, I had no difficulty in producing through the two and
	th	ree-eighths.
		Q So that it's probably loading up because you have to pro-
	du	ace it through this one-inch tubing?
6691		
CH 3-6691		A That is true.
N		Q What does the Drinkard make?
лс. Т		Q What does the L A The last test I recall, the Drinkard was making about
		A The last test 1
ЕĴ		A The last top: 7 barrels of oil and 35 barrels of water, but that is not a re-
IC	. 1	/ Dallelo en
2		cent test.
E		Q So the Drinkard Zone is relatively near depletion, you
Ś	- ~ ]	Q So the Difference
Ň	- 1,	might say?
I	ľ	
R		A yes sir, it lot Q At that time, you could produce the Tubb through the
0		Q At that time, you could produce the
MEIER REPORTING SERVICE, Inc.		
R		two and three-eighths again?
R		A That is correct.
II		
ME	2	Q You had no problem?
		A That is right.
E		A That is light Q What's the allowable situation, Mr. Lyon, when you
N		Q What's the allowable situation,
DEARNLEY-	MEXICO	Q What's the dillar change classifications in the Tubb inasmuch as the change in clas-
A	¥,	change classifications in balance, at
Id	ALBUQUERQUE, NEW	change classifications and sification probably won't occur when the well is in balance, at
	QUE,	
	QUEN	least if it's a gas well?
	ALBU	A I don't believe I understood?
		A I don't beriet. Q Well, the well changes from a gas well, and it wasn't i
		Q Well, the well changes from a year
		Q Well, the well of the well o
		balance as to gas product
		fication?

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	PAGE_11
	A You have to do it in a completely different system.
· .	Q So any overproduction or underproduction is wiped off
	the books?
16	A That is correct, I may be in error.
CH 3-6691	Q It's carried in the books in the event it comes back,
PHONE CH	back as a gas well, it's charged?
	A I believe so; it's a gas well at the time, period.
	Q So this has been a gas well?
	A That is correct.
	Q So, if it's classified again as a gas well, any over-
	production that it was classified, the classification on a gas
	well will be reinstated?
	A Well, overproduction, but I don't believe underproduct
	Q I see.
	A We have a supplement here; I don't know whether I can
	read this. This was in September of '59: Net allowable, 431.52,
	so it was underproduced at that time.
8	Q As I understand, your application is based on the fact
X WEX	that trying to produce the Tubb through the one-inch tubing is
iue, Nei	causing the well to load up; consequently, you are not making the
ALBUQUERQUE, NEW MEXICO	amount of gas or liquid that you could make if you were producing
ALB	through a large tube?
	A That is correct.
ч. 1	Q Now, at what point do you ordinarily abandon a Drinkar
•	taking into consideration both oil and water production?

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Well, we also have some gas production which is produced with the oil. Drinkard wells in the area are generally nearing depletion stage. We are producing a good many Drinkard wells which are producing more than two or three barrels per day. If we reclassify this well as a gas well, the Tubb, would you be willing to have it reclassified back as an oil well at such time as you abandon the Drinkard Zone and use the well through the two and three-eighths inch tubing? Yes sir, if the Commission sees fit to do that. That would reduce your problem in the interim period А Q to grant your application here? It would tend to eliminate your problem if at some correct. А future date you could produce the Tubb through a two and threeeighths inch tubing? yes. RE-CROSS EXAMINATION Mr. Lyon, your production string is seven inch? BY MR. UTZ: ALBUQUERQUE, NEW MEXICO Q Can't you run a larger size tubing than the one inch yes. А Yes sir, it can be done. It costs a considerable amount Q with your two and three-eighths?

So really, your only problem is that you have one inch

DEARNLEY-MEIER REPORTING SERVICE, **مر** در ر ş...4

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tubing trying to produce your water and low gravity liquids with the gas, and at the rates you have to produce, the tubing isn't quite big enough?

A I am sorry, I lost you.

Q You say, actually, your problem is that you have one inch tubing trying to produce low gravity oil and water at reduced rates, and the cause of your liquid problem is that the tubing isn't big enough to produce at those decreased rates?

A That is true. Of course, when we installed this tubing, we had no idea this would be classified as an oil well.

RE-CROSS EXAMINATION

BY MR. PAYNE:

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Q It would have been efficient had it been a regular gas producer. If it wasn't producing all these liquids, one inch would be large enough?

A The difficulty is that the limited gas-oil ratio is set far above the limit on any other gas pool in this area.

Q Well, is that a gas pool?

A Yes, I think it is.

Q You think the gas is more important than the oil in this reservoir?

A Yes, it's the major material present.

Q In terms of volume, or reservoir voidage, or money? A In --

In terms of what, all three?

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A All of them, but I do think that this is not an individual problem. This will be coming up in more wells more frequently.

Q What is that going to do to your offset? Is this going to hurt their rights in any way?

A I don't think so; we will not be producing any more gas than anyone else; we will not be producing any more oil than the oil wells are permitted to produce. I don't see how it would be hurting anybody.

Q You say that to the best of your recollection, there has been an exception of this kind granted to the Humble Well south of your well, here?

A That is my recollection; I recall the application being filed, and I believe I recall seeing the order. I can't give you the Order Number.

MR. PAYNE: All right, sir, thank you.

#### RE-REDIRECT EXAMINATION

#### BY MR. UTZ:

Q Mr. Lyon, when you analyze this well from the SUR standpoint of considering the gravity, do you think that a well should be classified as a gas well if the GOR's are in practical range? This itself isn't normally done; normally, GOR's are much higher? A That is true, but also you are limiting gas-oil ratio which in pools of this type are higher. We could, especially, if the ratio were 8000 to 1 rather than 2000 to 1.



PAGE 15 Do you have any idea what your stush ratio is in this Ω Surta haven pool? If you took ten samples, I expect you would get ten dif-А ferent slush ratios. If you took several samples in isolated zones. 3-6691 well, they'd be different. 5 But your answer is that they'd all be more than 2000 to Inc. Q 1? DEARNLEY-MEIER REPORTING SERVICE, I really couldn't say. А MR. UTZ: Any other questions? MR. PAYNE: Does Continental have any oil wells in this pool that are not penalized? MR. LYON: Yes. MR. PAYNE: So there are some producing with a gas-oil ratio? MR. LYON: We have one that is pumping. MR. PAYNE: Thank you. MR. UTZ: Any other questions? The witness may be excused. MEXI (Witness excused.) MR. UTZ: Any other statements in this case? The case **VEBUQUERQU** will be taken under advisement. We will have a ten minute recess.

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STATE OF NEW MEXICO  $\mathbf{ss}$ COUNTY OF BERNALILLO ) I, LA VERNE E. JAMES, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, CH 3-6691 is a true and correct record to the best of my knowledge, skill and Inc. PHONE C INCULTNESS WHEREOF I have affixed my hand and notarial ability. DEARNLEY-MEIER REPORTING SERVICE, seal this / 3 day of March, 1961. Reporter Court Public Notary My commission expires: January 6, 1965. I do hereby certify that the foregoing is a complete record of the rectings in ALBUQUERQUE, NEW MEXICO a complete record of 19.61 the Exami heard by Examiner ion Commission New Mexico Cil Conserv

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Exhibit No. 3

2188

BEFORE THE OIL CONSERVATION COMMISSION DRAFT OF THE STATE OF NEW MEXICO OEP/esr March 9, 1961 IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION z CASE No. 2188 COMMISSION OF NEW MEXICO FOR order No. R-1909 THE PURPOSE OF CONSIDERING: 101 0 APPLICATION OF CONTINENTAL OIL N COMPANY FOR AN EXCEPTION TO RULE 26(A) OF ORDER NO. R-1670, Ŋ RULES 20 (A) OF UNDER COUNTY, TUBB GAS POOL, LEA COUNTY, NEW MEXICO. ORDER OF THE COMMISSION This cause came on for hearing at 9 O'clock a.m. on ITV 23 1061 at Santa Re New Mexico before Blvis A This cause came on for hearing at 9 O'CLOCK a.m. on Utz February 23, 1961, at Santa Fe, New Mexico, before <u>Elvis A.</u> Examine: duly appointed by the Oil Conservation Commission of the Santa Fe, New Mexico, before Sant FEDFURITY 43, 1961, at Santa Fe, New Mexico, before <u>Blvis A. Utz</u> Bramine: duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission" in accordance Examine: 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. Mexico, nereinarter referred to as the "Commission," in with Rule 1214 of the Commission Rules and Regulations. NOW, on this \_\_\_\_\_\_ day of \_\_<u>March</u> , 1961, the Commissi a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner. 1961, the Commission, a quorum peing present, naving considered the application, evidence adduced, and the recommendations of the Examiner, Elvis A. Utz That due public notice having been given as required by (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof Elvis A. Utz That the applicant, Continental Oil Company, is the owner and operator of the State 10 Well No. 3-D, located 990 feet matter thereof. from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 Bast, NMPM, Lea County, New Mexico, which well is a dual completion in the Drinkard Pool and the Tubb Gas Pool produced through 2 3/8-inch and 1-inch tubing (3) That the applicant seeks the reclassification of said State 10 Well No. 3-D from an oil well to a gas well as an exceprespectively. tion to Rule 26(A) of the rules governing the Tubb Gas Pool as set forth in Order No. R-1670.

CASE No. 2188

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(4) That said Order No. R-1670 provides that a well in the Tubb Gas Pool which produces hydrocarbons possessing a gravity of 45<sup>°</sup> API or less shall be classified as an oil well.

(5) That during daily tests taken on the subject well in February, 1961, the highest gravity reflected was 42.9<sup>°</sup> API and the highest gas-oil ratio was 18,431.

(6) That the characteristics of the subject well as reflected by the daily tests are those generally possessed by an oil well.

(7) That the applicant's problem in attempting to produce the subject well as an oil well is that it loads up with liquids when produced through 1-inch tubing.

(8) That the evidence establishes that no such problem is encountered when Tubb production is through 2 3/8-inch tubing.

(9) That reclassification of the subject well based on present conditions is very likely to impair correlative rights, and, for this reason, the subject application should be <u>denied</u>.

IT IS THEREFORE ORDERED:

That the applicant's request for reclassification of its State 10 Well No. 3-D (990 feet from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 East, NMPM, Tubb Gas Pool, Lea County, New Mexico) from an oil well to a gas well as an exception to Rule 26(A) of Order No. R-1670 be and the same is hereby <u>denied</u>.

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

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