CASE 3562: Appli. of CONTINENTAL for a dual completion (Table Mesa Well No. 29), San Juan County.

CISE MO.

APPlication,
Transcripts,
SMALL Exhibits
ETC.

Case 35-62 Deard 4-25-67 Rec. 4-27-67 1. Scout approval of Continental's Dual completion (conventional) as requested for their Zable Mean # 29 Penn. 'C'- Las Pool. De Lowerzone in an Missisippiantogs od. 2. Parker & he set at approx 7098' to sefarate zones. another packer well be set af appares 74800 top of the Mississippion 238 tubury is set then the packers Min will be produced they the.

GOVERNOR DAVID F. CARGO CHAIRMAN

State of New Mexico Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



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

May 3, 1967

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Pe, New Mexico

3561 3562 Case No. Order No. 3-3223 & 3-3225 Re: Applicant:

Continental Oil Company

Dear Sir:

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

Very truly yours,

Secretary-Director

ALP/ir Carbon copy of order also sent to: Hobbs OCC X Artesia OCC_ Aztec OCC x R-3225 Other_

BEFORE THE OIL COMBERVATION 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 COMSIDERING:

> CASE No. 3562 Order No. R-3225

APPLICATION OF CONTINENTAL OIL COMPANY FOR A DUAL COMPLETION, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 26, 1967, at Santa Pe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 3rd day of May, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Continental Oil Company, seeks authority to complete its Table Mesa Well No. 29, located in Unit H of Section 9, Township 27 Morth, Range 17 Mest, MMPM, Ban Juan County, New Mexico, as a dual completion (conventional) to produce gas from the Table Mesa-Pennsylvanian "C" Gas Pool through the casing-tubing annulus and from an undesignated Mississippian gas pool through 2 3/8-inch tubing, with separation of zones by a packer set at approximately 7098 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

-2-CASE No. 3562 Order No. R-3225

IT IS THEREFORE ORDERED:

(1) That the applicant, Continental Oil Company, is hereby authorized to complete its Table Mesa Well No. 29, located in Unit H of Section 9, Township 27 North, Range 17 West, NMPM, San Juan County, New Mexico, as a dual completion (conventional) to produce gas from the Table Mesa-Pennsylvanian "C" Gas Pool produce gas from the Table Mesa-Pennsylvanian "C" Gas Pool through the casing-tubing annulus and from an undesignated through the casing-tubing annulus and from tubing, with separation Mississippian gas pool through 2 3/8-inch tubing, with separation of zones by a packer set at approximately 7098 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packerleakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Mississippian formation.

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

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

STATE OF NEW MEXICO OTL CONKERVATION COMMISSION

DAVID F. CARGO, Chapin

GUYTON B. HAYB, Monther

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

THEOFFICE OCC



CONTINENTAL OIL COMPANY

LEGAL DEPARTMENT

A. T. SMITH
GENERAL ATTORNEY
C. R. HAMPTON
F. E. RADLOFF
C. R. ROBERTS
JEHE D. TRESNER
ROBERT W. COOK, JR.
WILLIAM V. COX
ATTORNETS

DENVER, COLORADO 80202 March 23, 1967

Care 3562

Mr. A. L. Porter, Jr.
Secretary-Director, New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Application of Continental Oil Company for Multiple Completion, Table Mesa Well No. 29, Section 9, Township 27 North, Range 17 West, San Juan County, New Mexico

Dear Mr. Porter:

Submitted herewith in triplicate is Continental Oil Company's Application for Multiple Completion, dated March 8, 1967, on Form C-107, pertaining to the subject well.

As you can see, the Application for Multiple Completion has attached thereto the following:

- 1. Diagrammatic sketch of the multiple completion;
- 2. Flat showing the location of all wells on applicant's lease, all offset wells and the names and addresses of operators of leases offsetting applicant's lease;
- 3. Portions of electrical log of the subject well, showing tops and bottoms of producing zones and intervals.

By a carbon copy of this letter I am transmitting a copy of this application to all offset operators.

Copies to
Sunray DX Oil Company
Amerada Petroleum Corp.
Pan American Petroleum Corp.
Union Oil Co. of California

Very truly yours,

Charles R. RoberOCKET MALLED

Date

PIONEERING IN PETROLEUM PROGRESS

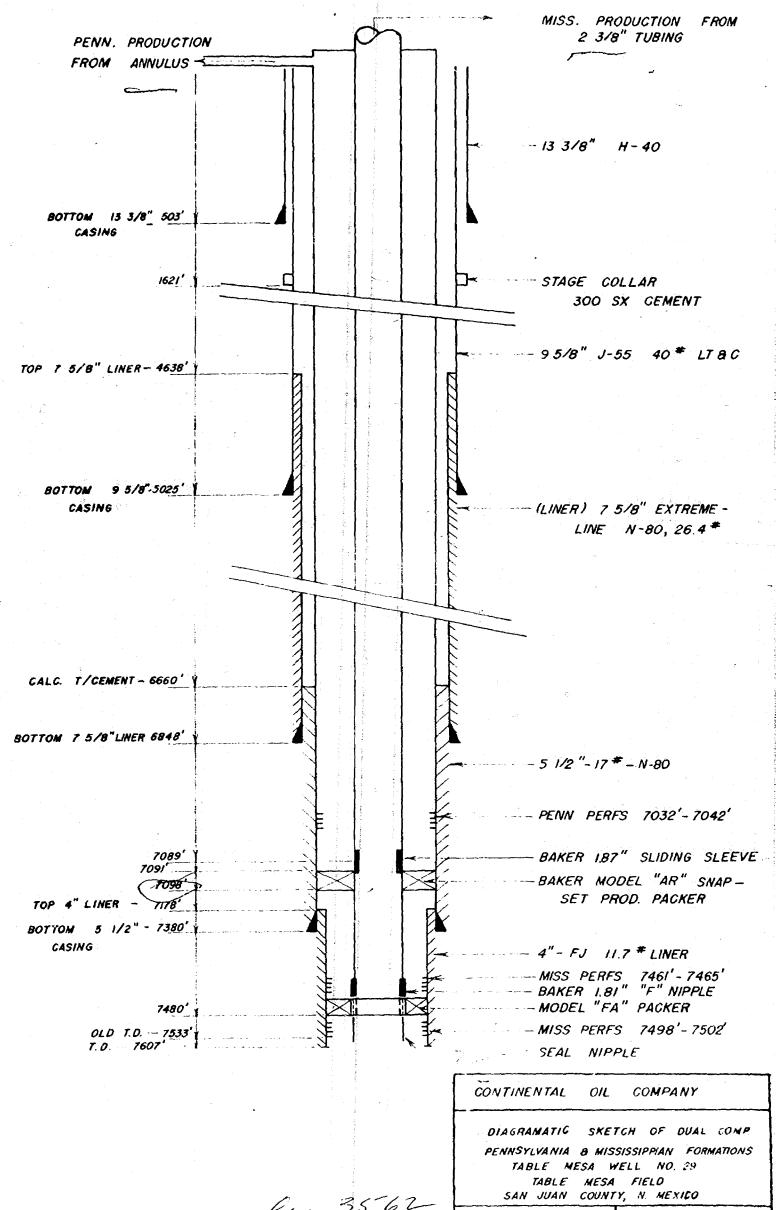
NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C+107 5-1-61

			0. 3
Operator	- 	County	Case 3562
	anv	San Juan	March 8, 1967
Continental Oil Company Address		Lease	Well No.
P. O. Box 1621, Dura	ngo, Colorado	Table Mesa	29
Location Unit Sec	Towr	eship 27N	Range 17W
	na Commission heretofore aut		of a well in these same pools or in the same
zones within one mile of the subject		o X	•
2. If answer is yes, identify one such i	nstance: Order No	; Operator Lease,	and Well No.:
3. The following facts are submitted:	The second secon		
3. The fortowing facts are submittee.	Upper Zone	Intermediate Zone	Zone
a. Name of Pool and Formation		(Cit.)	San Juan Undesig. (Miss.
b. Top and Bottom of	Laure meda (a cim,	<u> </u>	Pan seat office 18. (11233)
Pay Section			
(Perforations)	70371-70421		7498'-7502'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production			
(Flowing or Artificial Lift)	Flowing		Plowing
4. The following are attached. (Please	check YES or NO)		
izers and/or turboliz	ers and location thereof, qua	ntities used and top of cement	cluding diameters and setting depths, central, perforated intervals, tubing strings, including nd such other information as may be pertinent
	ation of all wells on applica		offset leases, and the names and addresses
tots have been furnis	shed copies of the applicati	on."	lieu thereof, evidence that said offset opera
X d. Electrical log of the dicated thereon. (If s	well or other acceptable lo uch log is not available at the	g with tops and bottoms of pro- ne time application is filed it s	ducing zones and intervals of perforation in thall be submitted as provided by Rule 112-A-
5. List all offset operators to the lease	on which this well is locate	d together with their correct m	ailing address.
Sunray DX 011 Company			
Amerada Petroleum Com	rp., P. O. Box 1469	Durango, Colorado	
		· · · · · · · · · · · · · · · · · · ·	r (1945). Sintanta di Sala
Pan American Petrolet	m Corp., Security 1	ife Bldg., Denver, C	colorado
Union Oil Co. of Cali	fornia Drawer 161	Casner Wyoming	
Onion off Got of Gal.	LUINIA, DIAWCI 101.	doper, nyomeng	
		<u></u>	
i de la companya de		* ·	:
	bove notified and furnished	a copy of this application? Y	ES X NO If answer is yes, give
		istrict Manager	of the Continental Oil
CERTIFICATE: I, the undersigned, Company (c under my supervision and direction and	omnany) and that I am auth	orized by said company to make	this report; and that this report was prepared
under my supervision and direction and i	inat the facts stated therein	are true, contest and compacte t	· · · · · · · · · · · · · · · · · · ·
		<i>M</i>	
		All	1 toler
			Stapeture

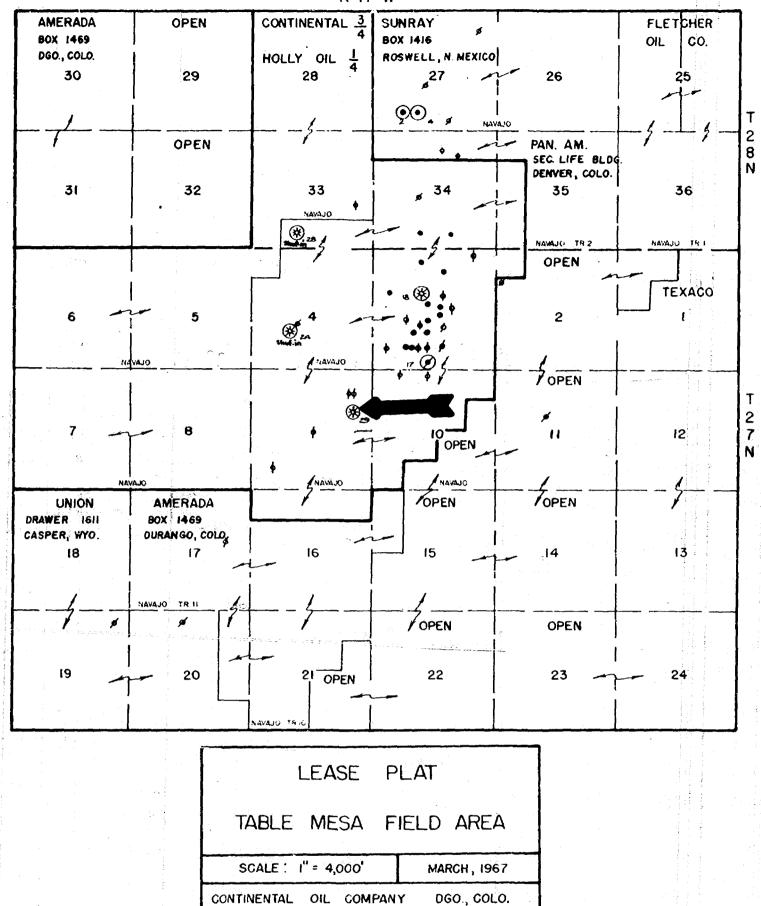
Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



Care 3562

MARCH, 1967



LEGEND:

- DAKOTA OIL WELL
- PENN. OIL WELL
- (HELIUM GAS WELL

Can 3562

-2-Docket No. 12-67 April 26, 1967 Examiner Hearing

- CASE 3559: Application of BTA Oil Producers for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the South Flying "M"-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 80-acre proration units.
- CASE 3560: Application of Phillips Petroleum Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Mat Mesa Unit Area comprising 7874 acres, more or less, of Federal and State lands in Township 21 South, Ranges 32 and 33 East, Lea County, New Mexico.
- CASE 3561: Application of Continental Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Meyer B-4 Well No. 19 located in Unit O of Section 4, Township 21 South, Range 36 East, to produce oil from an undesignated Paddock pool and from the Oil Center-Blinebry Pool through parallel strings of tubing.
- CASE 3562: Application of Continental Cil Company for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Table Mesa Well No. 29 in Unit H of Section 9. Township 27 North, Range 17 West, San Juan County, New Mexico, to produce gas from the Table Mesa-Pennsylvanian "C" Gas Pool and from an undesignated Mississippian gas pool through the casingtubing annulus and 2-inch tubing, respectively.
- CASE 3563: Application of Skelly Oil Company for an amendment to the Southeast New Mexico Gas Proration Rules and Regulations. Applicant, in the above-styled cause, seeks an amendment to Order No. R-1670, as amended, Rules and Regulations for Prorated Gas Pools, Lea, Eddy, Chaves and Roosevelt Counties, New Mexico, to provide an administrative procedure whereby wells ordered shut-in for extended periods to make up accumulated overproduction could be permitted to produce up to 500 MCF each month during such shut-in.
- CASE 3564: Application of Maxwell Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of its Taylor Unit Area comprising 640 acres, more or less, of federal lands in Sections 12 and 13, Township 18 South, Range 31 East, Eddy County, New Mexico.

Docket No. 12-67

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 26, 1967

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

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

- CASE 3554: Application of Coastal States Gas Producing Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Flying "M" San Andres Unit Area comprising 4080 acres, more or less, of State, Federal and Fee lands in Township 9 South, Range 33 East, Lea County, New Mexico.
- CASE 3555: Application of Coastal States Gas Producing Company for a pressure maintenance expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the pressure maintenance project in its Flying "M" San Andres Unit by the injection of water into the San Andres formation through 8 injection wells located in Sections 15, 16, 17, 20, 22, 28, 29 and 33, Township 9 South, Range 33 East, Lea County, New Mexico. Applicant further seeks the promulgation of special rules for said project, including provision for future expansion.
- CASE 3556: Application of Southland Royalty Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a proposed Devonian gas test well at an unorthodox gas well location 660 feet from the North and West lines of Section 12, Township 25 South, Range 35 East, Lea County, New Mexico. The well would be dedicated to the N/2 of said Section 12.
- CASE 3557: Application of Gulf Oil Corporation for compulsory pooling,
 Lea County, New Mexico. Applicant, in the above-styled cause,
 seeks an order force-pooling all mineral interests in the InbePennsylvanian Pool underlying the E/2 SW/4 of Section 13, Township 11 South, Range 33 East, Lea County, New Mexico.
- CASE 3558: Application of BTA Oil Producers for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Lowe 671 Ltd. Well No. 1 as an exception to the well location requirements of Order No. R-2929 for the Nonombre-Upper Pennsylvanian Pool and the Nonombre-Lower Pennsylvanian Pool, Lea County, New Mexico. The proposed well would be located 560 feet from the North and West lines of Section 5, Township 14 South, Range 34 East.

-3Docket No. 12-67
April 26, 1967 Examiner Hearing

CASE 3565: Application of Jomar Industries, Inc. for a non-standard oil proration unit, several non-standard locations, temporary exception to Rule 307, and capacity allowables, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill 64 oil wells at non-standard locations on a non-standard cil proration unit comprising the S/2 NW/4 SE/4 and the N/2 SW/4 SE/4 of Section 30, Township 18 South, Range 33 East, Lea County, New Mexico, for production from the Ogallala formation. Said wells would be drilled to a density of four wells to each 2.5 acres and would be no nearer than 82.5 feet to the outer boundary of the unit and no nearer than 165 feet to another well producing from the same formation. Applicant also seeks a temporary exception to Rule 307 for each well to permit utilization of a vacuum-type drilling unit during the drilling and completion operation. Applicant further seeks authority to produce the wells at capacity even though the aggregate production from said wells exceeds the 40-acre normal unit allowable.

CASE 3536: Application of William A. and Edward R. Hudson for a water-flood expansion, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to expand their Puckett Waterflood Project, Maljamar Pool, by the injection of water into the Grayburg-San Andres formations through 10 wells in Sections 24 and 25, Township 17 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks an administrative procedure for future expansion of said project.

PAN AMERICAN PETROLEUM CORPORATION

PRODUCING DEPARTMENT
H. T. HUNTER
DIVISION PRODUCTION
MANAGER

SECURITY LIFE BUILDING

DENVER, COLORADO 80202

April 4, 1967

7 APR

DISTRICT SUPERINTENDENTS W. M. JONES A. E. PIPER T. M. CURTIS

File: SBR-188-986.511

JOINT INTEREST SUPERINTENDENT S. B. RICHARDS

Re-

Application of Continental Oil Company for Multiple Completion, Table Mess Well No. 29

Table Mesa Well No. 29, Section 9, Township 27 North, Range 17 West.

North, Range 17 West, San Juan County, New Mexico

Case 3562

Mr. A. L. Porter, Jr.
Secretary - Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Porter:

This is to acknowledge receipt of a copy of the application of Continental Oil Company concerning the above matter. Pan American Petroleum Corporation, one of the offsetting lease owners, has no objection to the granting of the relief requested by the applicant.

Yours very truly,

5. B. Richard

cc: C. R. Roberts Continental Oil Company 1755 Glenarm Place Denver, Colorado

DOCKET MAILED

Date 4-14-6

dearnley-meier reporting service, inc.

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico EXAMINER HEARING

April 26, 1967

IN THE MATTER OF:

Application of Continental Oil Company for a dual completion, San Juan County, New Mexico.

Case 3562

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING



MR. UTZ: Case 3562.

MR. HATCH: Case 3562, application of Continental Oil Company for a dual completion San Juan County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, appearing for the Applicant. I have one witness I would like to have sworn, please.

(Witness sworn.)

LEO CICHOWICZ, called as a witness on behalf of the Applicant, first having been duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Would you state your name, please? Q
- Leo Cichowicz, C-i-c-h-o-w-i-c-z. Α
- By whom are you employed and in what position? Q
- Continental Oil Company, Senior Engineer.
- Where are you located, Mr. Cichowicz?
- Durango, Colorado.
- Have you ever testified before the Oil Conservation Commission of New Mexico and made your qualifications a matter of record?
 - I have.

MR. KELLAHIN: Are the witness' qualifications

acceptable?

MR. UTZ: Yes, sir, they are.

(By Mr. Kellahin) Mr. Cichowicz, are you familiar Q with the application of Contintental Oil Company in Case 3562?

I am. Α

What is proposed by Continental Oil Company in Q this case?

Dual completion of the Table Mesa Number 29 in A the Mississippian and Pennsylvanian formations.

Did you cause an application to be filed with 0 the Commission for this dual completion?

I have.

Attached to the application is there a plat showing the well location and the acreage ownership in the vicinity of the well?

> Α Yes, sir.

MR. KELLAHIN: We would like to make reference to the application and offer the lease plat, together with the diagram attached to that as exhibits in this case.

MR. UTZ: The lease plat?

MR. KELLAHIN: And the schematic diagram and the log.

> MR. UTZ: This is exhibits?

MR. KELLAHIN: Yes, sir. I have a set of them here, if you would like to have them marked separate?

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MR. UTZ: 107?

MR. KELLAHIN: 107, also, yes, sir.

MR. UTZ: You just want to get them marked?

MR. KELLAHIN: Yes, sir.

(Whereupon, Applicant's Exhibits 1 through 5 were marked for identification.)

Q (By Mr. Kellahin) Now, Mr. Cichowicz, passing over for just a moment Exhibit Number 1; would you refer to Exhibit Number 2 and identify that, please?

A Exhibit Number 2 is the Commission Form C-107, which outlines the proposed dual completion and the zones of completion, the type of production expected and the method of production, the off-set operators and the distribution made of the exhibits referred to.

- Q Now is there a dual completion in these two zones in this area?
 - A No, there is not.
- Q Is that the reason the application had to be made for hearing in this case?
 - A That is correct.
- A Referring to what has been marked as Exhibit

 Number 3, would you identify that please?
- A Exhibit Number 3 is the schematic of the dual completion as proposed for the well.

MMS BLDC. . P.O. BOX 1092 . PHONE 243-6491 . ALBUQUERQUE; NEW, MEXICO 87101

SPECIALIZING IN DEPOSITIONS, HEARINGS,

- Q Now, on that exhibit does it show the location of the packer to be set in the well?
 - A Yes, it does.
 - Q Would you outline that, please?
- A A Model FHA Packer, a permanent type packer is set to separate the two zones perforated within the Mississippian formation and the Model AR, Baker Model AR Snap Set Production Packer, is set at 7098 for the purpose of segregating production from the Pennsylvanian and Mississippian zones.
- Q Now, you have set a packer between the two zones within the Mississippian. What is the reason for that?
- A Well we conducted separate tests of the Mississippian because the upper interval tested a large quantity of water and only a small amount of gas and the lower quantity tested an appreciable quantity of gas and was deemed adviseable for completion. This particular production packer was set at this point.
- Q Now, have you achieved effective separation between the water producing zone of the Mississippian and the lower zone which is gas productive?
 - A Yes, we have.
- Q Referring to the snap-set packer which is between the Mississippian and the Penn formations, why has that type

of packer been used here.

This particular packer is manufactured by Baker Oil Tube Company and designed for use in wells in which combinations of packers must be set. The tool is rotationally locked and set in compression and it has three rubber packing elements and those slip. We found it adaptable for use in this particular well, since it is removable by counter-rotation in the event the tubing must be removed. In that case, the packer is removed with the tubing and any future or subsequent remedial work can be done without too much problem.

- Now, the way the well will be completed, you will produce the Pennsylvanian through the annulus and the Mississippian through the tubing, is that correct?
 - That is correct.
- Will the type of packer you have used in your opinion, give effective separation between the Pennsylvanian and the Mississippian formations?
- Yes, it will, as is evidenced by the packer leakage test as submitted.
 - Is that marked as Exhibit Number 1?
 - Α That is correct.
- And is that the regular packer leakage test which was made pursuant to the directions of this Commission?
 - That's correct.

, NEW MEXICO 87101 , NEW MEXICO 87108

- O Has it been filed with the Commission?
- A Yes, sir.
- Q In your opinion, will there be any danger of communication between the two producing horizons in this well?
 - A No.
- Q Does your Exhibit Number 3 also show your cementing program on this well?
 - A Yes, it does.
- Number 4, would you identify that exhibit, please?
- A Exhibit Number 4 is a lease plat outlining the location of well, other wells located within the lease area, the names and addresses of all off-set operators.
- Q Referring to what has been marked as Exhibit Number 5, would you identify that exhibit?
- A Exhibit Number 5 is a gamma ray neutron log of the intervals, of the completion within the Table Mesa Number 9 -- excuse me, Table Mesa Number 29.
- Q Does the exhibit also reflect the two zones you mentioned in the Mississippian?
 - A Yes, it does.
 - Q Are they marked on the log?
 - A Yes, they are.
 - Q Were Exhibits 1 through 5 prepared by you or under

your supervision?

Yes, they were.

MR. KELLAHIN: I offer in evidence Exhibits 1 through 5, inclusive.

MR. UTZ: Without objection Exhibits 1 through 5 will be entered into the record of this case.

Q (By Mr. Kellahin) Mr. Cichowicz, is the type of completion that you have proposed here one that has been approved by this Commission in other cases?

Yes, I believe that it is.

MR. KELLAHIN: That's all I have, Mr. Utz.

CROSS EXAMINATION

BY MR. UTZ:

- Does the gas below the lower packer contain helium?
- Yes, approximately six percent in volume.

MR. KELLAHIN: What is your market for the gas from these zones?

THE WITNESS: The gas is sold to the helium plant located in Shiprock, New Mexico.

MR. KELLAHIN: And that is from both the Pennsylvanian and the Mississippian?

THE WITNESS: That is correct. The gas is comingled at the surface and pipelined to the plant at Shiprock.

MR. KELLAHIN: Are you making separate measurements before co-mingling?

THE WITNESS: Yes, the gas is measured separately before it is co-mingled.

MR. KELLAHIN: What is the helium content of the Pennsylvanian gas.

THE WITNESS: Approximately 5.81 percent.

MR. KELLAHIN: And is there any commercial use for it, other than for the extraction of the helium?

THE WITNESS: No.

MR. KELLAHIN: It has a high concentration of nitrogen, does it?

THE WITNESS: That is correct. That is the reason that it is no longer commercial after the helium has been extracted.

- (By Mr. Utz) Which zone was flowing on your packer test?
- The Mississippian was flowing and the Pennsylvanian was shut-in as you will note, there was only a three pound pressure drop in the time interval test, which -- Let's see, 327 at 11:15 P.M. to 328 at 10:30 P.M. Approximately twentythree hours and forty-five minutes.
- In affect on your casing program, you have a solid sheet of cement outside the different strings of casing from

DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT

the bottom up to 4638, is that correct, sir?

- That is correct, sir.
- And from 503 up, was it circulated?
- Yes, sir, the cement circulated.
- Where does it say that, or does it?
- It doesn't say it, sir, but I guess it should have been reported as such, but it is not shown here.
- What kind of pressures do you have in these two zones?
- The initial pressure in the Pennsylvanian Zone by drill-stem test was measured as 2707 PSI. The initial pressure in the Mississippian Zone was measured That also was measured on DST.
- And, these wells don't produce any liquids, I presume?
- Yes, they do. The initial potential of the zone of completion in the Mississippian was 2,300 MCF of gas, 140 barrels of condensate and 220 barrels of water. This test was taken in April 22, 1967.
 - 200 barrels?
 - 220 barrels of water.

MR. KELLHAIN: What was the gravity of that condensate?

THE WITNESS: The initial gravity was 68° API.

and the first state of the stat	Q	(By Mr. Utz) And how much condensate was it?
sociale in the grounds	A	140 barrels.
De Otto Here gangles	Q	The gravity of these gasses would undoubtedly
bei	retty	high, wouldn't it?
Action of the second	A	The gravity of the gas is .921 in the Pennsylvan-
ian	and .9	3 in the Mississippian.
ed Sees - See	Q	Six percent helium didn't lighten it up much,
did	it?	

A No, sir, not too much.

MR. UT2: Any questions of the witness? You may be excused.

(Witness excused.)

MR. UTZ: Any statements in this case? The case will be taken under advisement.

1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691.• ALBUQUERQUE, NEW MEXICO 87101-1400 FIRST NATIONAL BANK EAST* • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO 87108

STATE OF NEW MEXICO COUNTY OF BERNALILLO)

I, JERRY POTTS, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission Examiner at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 15th day of June, 1967.

My Commission Expires:

E despite rouped of the proceedings in the Executer hearing of Case \$035.62 offere by us on Charling

The Borico Oil Conservation Commission

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MOLTHFEST MET MEXICO PACKER INAXAGE TEST INSTRUCTIONS

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NORTHWIST MEXICO PACKER MARKET TAST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed
well within seven days after actual completion of the well, and annually
therefire as prescribed by the order authorising the multiple completion.
Bush tests shall also be commenced on all multiple completions within
seven days following recomplation and/or chemical or fracture treatment,
and whenever remedial bork has been done on a well during which the packer
er the tubing have been disturbed. Tests shall also be taken at any time
that communication is suspected or when requested by the Commission.

2. At least 72 hours prior to the commencement of any packer leakage tort,
the operator shall notify the Commission is writing of the stact time the
test is to be commenced. Offset operators shall also be so satisfied.

test is to be commanced. Offset operators shall also be so satisfied.

3. The packer leakage test shall commence ben both mones of the dual completion are shall for pressure stabilization. Both mones shall remain shut-in until the sell-head pressure in each has stabilized, provided heaveer, that they need not remain shut-in more than seven days.

4. For Flow Twet No. 1, one mone of the dual completion shall be produced at the mornal rate of production while the other mone remains shut-in, but test chall be continued for seven days in the case of a gas well and for 14 hours in the case of an oil well. Note: If, on an initial packer leakage test, a gas well is being flowed to Tub atmosphere due to the lack of a pipeline connection the flow period shall be three hours.

5. Pollowing completion of Flow Teet No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Time Test No. 2 shall be conducted even though so look was indicated during flow Test No. 1. Procedure for flow Test No. 2 is to be the same as for flow Test No. 1 except that the previously produced some shall remain shut-in while the zone which was previously shut-in is produced.

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7. Pressures for gal-4218 tests kust be acauted or each rose with a deadweight pressure gauge at the intervals as follows: 3-bojr tests: imagdiately prior to the beginning of each flow-period, at fifteen-minute intervals during the first bour thereof, and at bourly intervals there-after, including one pressure measurement imagdiately prior to the conclusion of each flow period, 2-day tests; imagdiately prior to the conclusion of each flow period, at least one time during each flow period (at approximately the midday point) and imagdiately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil some teste; all pressures, throughout the satire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which hust be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil some only, with deadweight pressures as required above being taken on the gas some.

as required above being taken on the gas mose.

8. The results of the above-described tests shall be filled in triplicate within 15 days after completion of the test. Tests shall be filled with the Astec District Office of the New Mexico Oil Conservation Consission on Mortbreat New Maxico Packer Leakage Test Form Newtoned 11-1-35, with all dandweight pressures indicated thereon as well as the flowing temperatures (gas mones only) and gravity and GOR (oil mose only). A pressure versus time curve for each mome of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressure points taken indicated thereon. For oil mones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

PRESSURE (MUNDREDS)

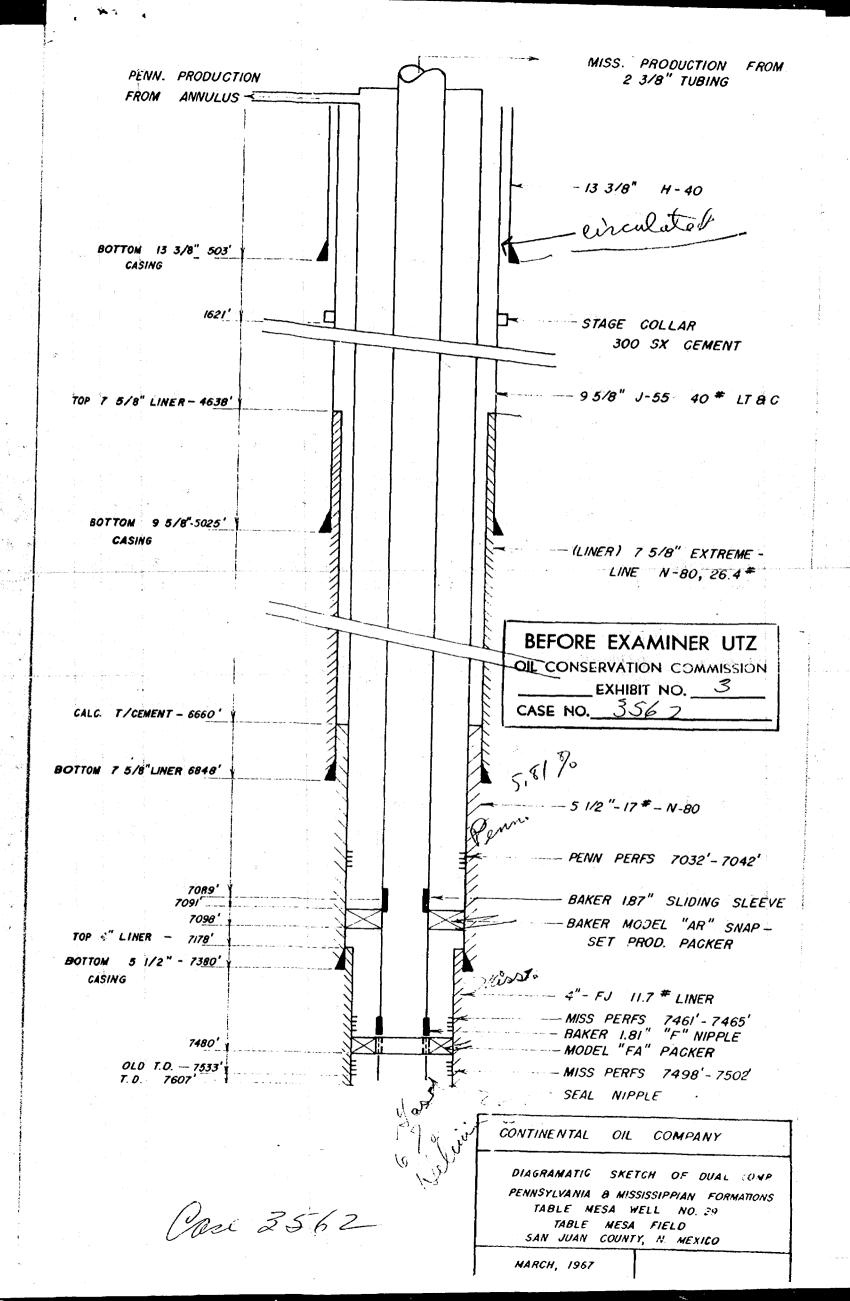
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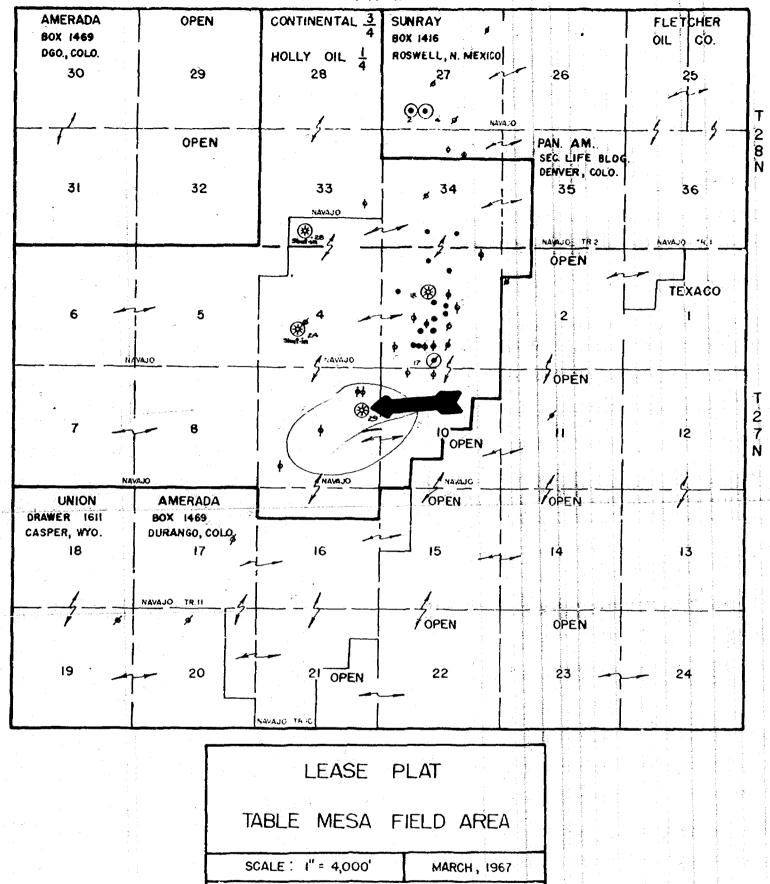
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BEFORE EXAM	MINERW UETZO OIL	. CONSERV	ATION COMMISSION		THE LET COLUMN THE PARTY.	Form C-107 5-1-61	
	N COMPRESENTON F	OR MULTI	PLE COMPLETION		discontinue		
3 562 EXHIBIT	NO					1	
CASE NO. 3	562			->	ノラー	\$	1
Operator Operator			Clerc c				
Continental Oil Co		County		Date		1000	
Address	mherra	Lease	in Juan	Well N	March 8	, 196/	
P. C. Box 1621, Du	rango, Colorado	Ta	ble Mesa		29		
		Fownship		Range			
of Well	9		27N	ş <u> </u>	17W		
1. Has the New Mexico Oil Conserva	ation Commission heretofore	authorized	the multiple completion	of a well	in these sam	pools or in the	same
zones within one mile of the subje		NO_X					
2. If answer is yes, identify one suc	h instance: Order No		; Operator Lease,	and Well	Vo.:	<u> </u>	
		<u> </u>	10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: F			
3. The following facts are submitted	Upper		Intermediate			Lower	1
in the second of	Zone		Zone			Zone	- 5
a. Name of Pool and Formation	Table Mesa (Penn	1. "C")			San Juan	Undealg. (Mi	88
b. Top and Bottom of							
Pay Section						Programme and the second	
(Perforations)	7037 -7042	1				7502	- -
c. Type of production (Oil or Gas) Gas				1	as	
(Flowing or Artificial Lift)	Flowing			· · · · · · · · · · · · · · · · · · ·	121 ,	wing	
4. The following are attached. (Please					F 10	MINE	
b. Plat showing the of operators of all C. Waivers consentin tors have been fully defectional log of the consention of the consention to	tch of the Multiple Complete lizers and location thereof, ring depth, location and type location of all wells on app leases offsetting applicant g to such multiple complete raished copies of the applicant the well or other acceptable	quantities to of packers licant's least's lease. ton from each cation.*	used and top of cement, and side door chokes, and se, all offset wells on a offset operator, or in the sand bottoms of produces.	perforated d such oth offset lea lieu therec	intervals, tuler information ses, and the of, evidence t	ing strings, includes may be perti- names and addrest hat said offset of the perforation	nent. sses pera-
	If such log is not available	- <u>-</u>				Videa by Rule 11	
5. List all offset operators to the les				iling addre	ess.		
Sunray DX Oil Compa	any, P. O. Box 1416	, Roswel	l, New Mexico				
Amerada Petroleum (Corp., P. O. Box 14	69. Dura	ngo. Colorado	10 mark			
		<u> </u>		7			
Pan American Petrol	leum Corp., Securit	y Life B	ldg., Denver, Co	lorado			
7.1. A.1. A							
Union Oil Co. of Ca	illiornia, Drawer 1	611, Cas	per, Wyoming				
						. 1 i	
6. Were all operators listed in Item date of such notification	5 above notified and furnish	ed a copy of	this application? YE	s X N	10 If	answer is yes,	give
	ing and the second	Diotes	t Manager o	ے ا	وأدع سأم مداؤ والم	0:1	
CERTIFICATE: I, the undersigne Company under my supervision and direction as	(company), and that I am a	authorized by	said company to make	this report	ntinental ; and that thi of my knowled	s report was prej	ared
				_/			
			1/15	// 1			
			AN).	ralle			
				Signatu	re		

*Should waivers from all offset operates not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for rearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





CONTINENTAL OIL COMPANY

Cace 3562

LEGEND:

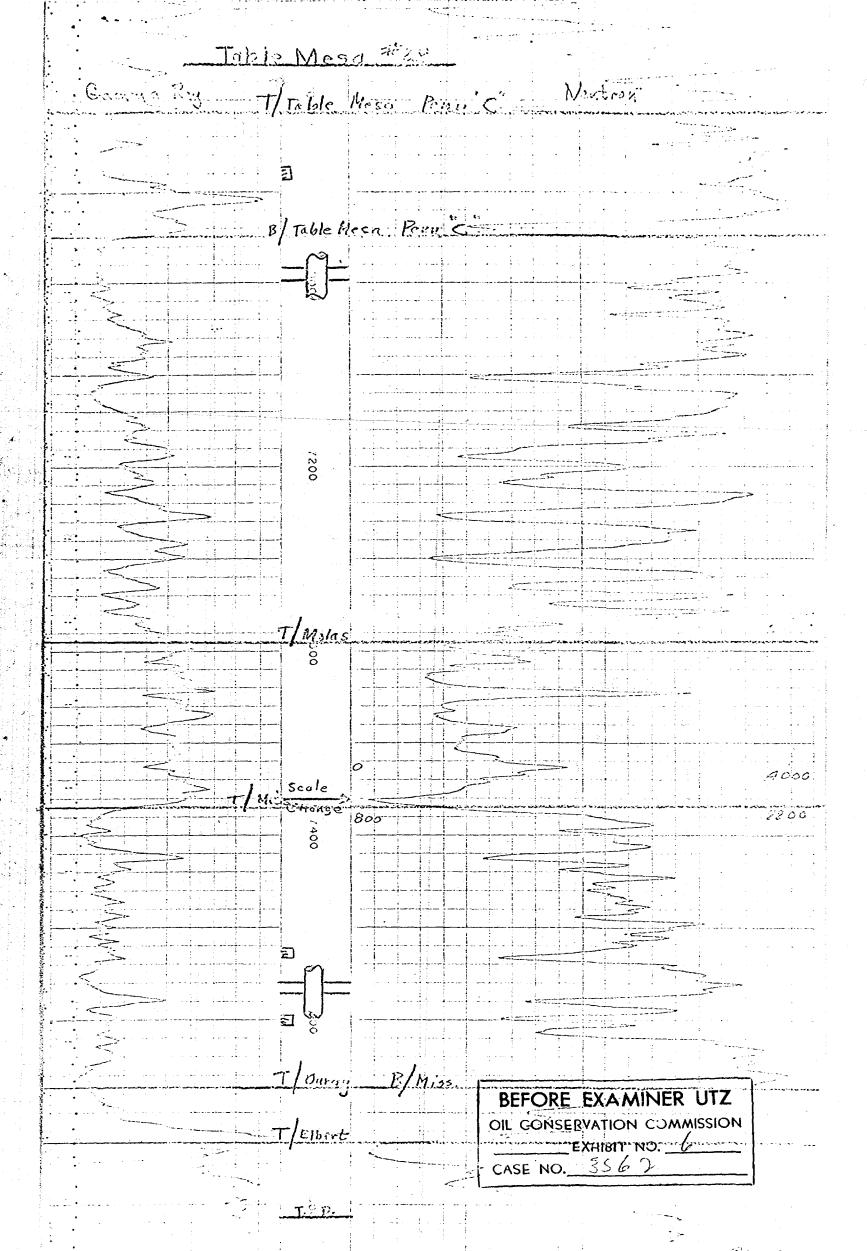
5. 5.

DAKOTA OIL WELL

- PENN. OIL WELL
- HELIUM GAS WELL

BEFORE EXAM	AINER UTZ
DIL CONSERVATION	NOISSIMMUS I
EXHIBIT	NO. 4
CASE NO. 356	2

DGO, COLO.



Can 3562