CASE 2661: Application of PAN AMER. for a triple completion of its SOUTHLAND ROYALTY "A" WELL NO. 2.

platin, Transcript,
mill Exhibits, Etc.

### DRAFT

JMD/esr October 19, 1962

# 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. 2661

Order No. R- <u>2343</u>

APPLICATION OF PAN AMERICAN PETROLEUM CORPORATION FOR A TRIPLE COMPLETION, LEA COUNTY, NEW MEXICO.

Miles

John Jan

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 10, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 day of October , 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter , 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, Pan American Petroleum Corporation, is the owner and operator of the Southland Royalty "A" Well No. 2, located in Unit B of Section 9, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks permission to complete said Southland Royalty "A" Well No. 2 as a triple completion (conventional) in the Drinkard Oil Pool, Blinebry Oil Pool, and Tubb Castrol in such a manner as to produce oil from the Drinkard formation and from the Blinebry formation through 2 3/8-inch OD tubing and 2.0-inch OD tubing, respectively, and to produce gas from the Tubb Gas Pool through 2.0-inch OD tubing.
- (4) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

### IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to complete its Southland Royalty "A" Well No. 2, located in Unit B of Section 9, Township 21 South, Range 37 East. NMPM. Lea County, New Mexico, as a triple completion (conventional) in the Drinkard Cil Pool, Blinebry Cil Pool, and Tubb Sac Pool in such a manner as to produce oil from the Drinkard formation and from the Blinebry formation through 2 3/8-inch OD tubing and 2.0-inch tubing, respectively, and to produce gas from the Tubb Gas Pool through 2.0-inch OD tubing.

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.

PROVIDED FURTHER, That the operator shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard Oil Pool, and at such other times as the Secretary-Director of the Commission may prescribe.

(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.

## PAN AMERICAN PETROLEUM CORPORATION

10 P. O. Box 268 Lubbock, Texas September 11, 1962

WJS-3452-986.510.1

Subject: Application For Permission To Triple Complete The Pan American

Car 2661

Petroleum Corporation -

Southland Royalty "A" Well No. 2 In The Drinkard (011)-Tubb (Gas)-

Blinebry (Oil) Pools Of Lea

County, New Mexico

Mr. A. L. Porter, Jr. Secretary Director New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

insp ... M

Dear Sir:

In accordance with the provisions in Statewide Rule No. 112, Pan American Petroleum Corporation respectively requests that you schedule for an early docket a hearing to consider its application for permission to triple complete the subject well in the pools specified above. As shown on the attached plat, this well is located in Unit "B" of Section 9, T-21-S, R-37-E, Lea County, Wex Mexico.

Southland Royalty "A" No. 2 is presently completed as a dual Drinkard (0il)-Tubb (Gas) well. Authority to dual complete in these zones was granted by the Commission's Order No. DC-59 dated January 22, 1954. Pan American now proposes to also complete this well in the Blinebry (011) zone. This completion will be a "conventional" completion utilizing separate strings of tubing to produce each of the three horizons. The well presently has 7-inch casing set at 6740'. Packers will be utilized to effect separation of the three zones in the well bore.

In support of this application we enclose herewith three copies of State Form "Application For Multiple Completion", and a plat showing the location of the well.

DOCKET MAILED

File: WJS-3452-986.510.1 Mr. A. L. Porter, Jr. The Southland Royalty "A" Lease is offset by properties operated by Continental Oil Company, Western Oil Fields, Inc., Texaco, Inc., Shell Oil Company, and Humble Oil and Refining Company. Copies of this application are being furnished these operators. By separate correspondence Pan American is applying for permission to triple complete its South Mattix Unit No. 14 in the Fowler Paddock (Gas) -Powler Blinebry (Oil) and Tubb (Gas) Undesignated Pools. We request that both of these applications be scheduled on the same examiner hearing docket in order that they may be handled at the same hearing. Yours very truly, a frequenche, A. J. Inderrieden District Engineer WJS:lm Enclosures cc: Continental Oil Company Western Oil Fields, Inc. Texaco, Inc. Shell Oil Company Humble Oil and Refining Company

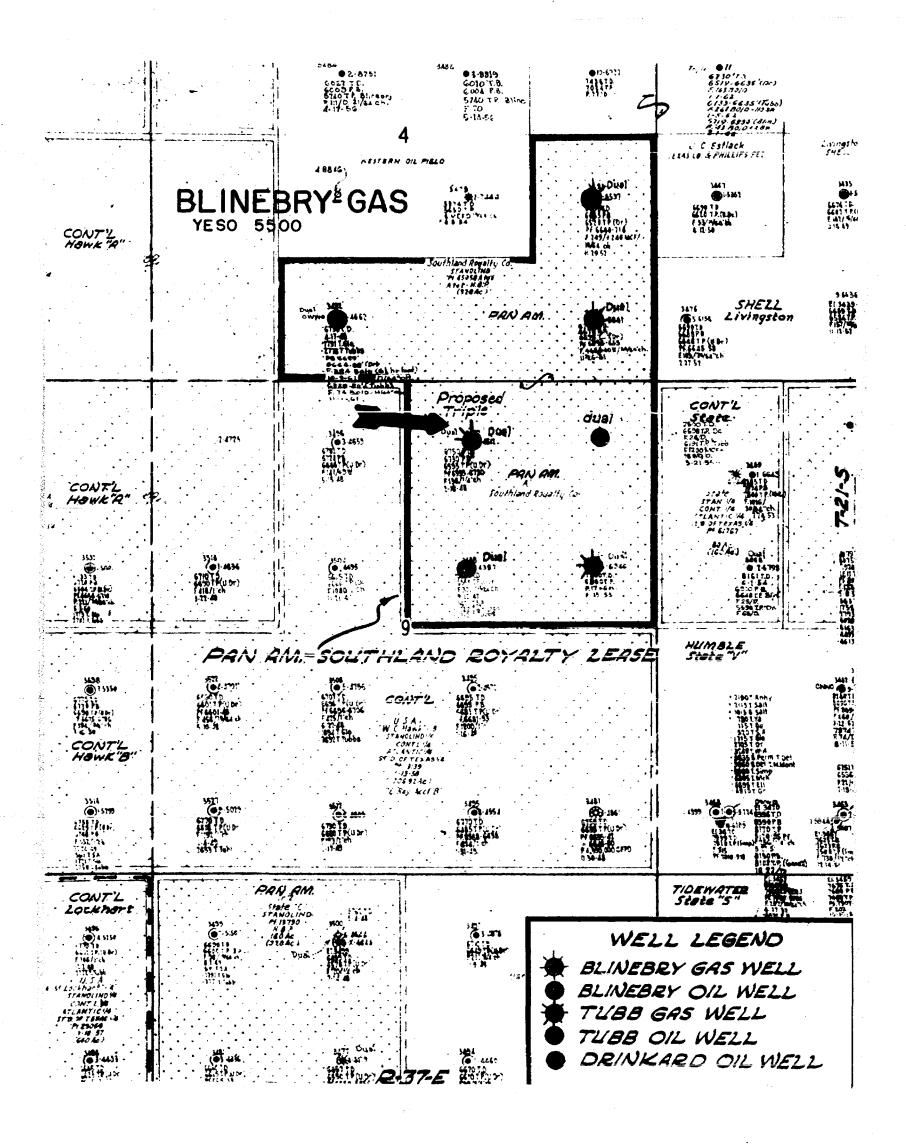
### NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

	APPLICATION FOR MU	LTIPLE COMPLETION	lest 2661
perator		County	Date
Pan American Pet	roleum Corporation	Lea	September 11, 1962
dress	ſ	Lease	Well No.
Box 268, Lubbock		outhland Royalty "A"	Range
11511	Section Tow	rnship 21 South	37 East
Has the New Mexico Oil Conservati		· · · · · · · · · · · · · · · · · · ·	
same zones within one mile of the s it answer is yes, identify one such in	ubject well? YES NO.	<u> </u>	
The following facts are submitted:	Upper Zore	Intermediate Zone	Lowet Zone
a. Name of Pool and Formation	Blinebry	Tubb	Drinkard
b. Top and Bottom of			
Pay Section	To be selected afte	,	
(Perforations)	log is run.	6330-6495	6595=6730
e. Type of production (Oil or Gas)	Oil Anticipated	Gas	011
d. Method of Production			
(Flowing or Artificial Bift) The following are attached. (Please	Flow	Flow	Flow
	or other acceptable log with tog t available at the time application which this well is located to n: Mr. W. A. Mead, 82, Attn: Mr. R. H. Swa W. C. Lentz, Box 3109 Mr. R. L. Rankin, Bo	on is filed, it shall be submitted ogether with their correct mailing 25 Petroleum Bldg., Rearthout, Box 1147, Hold P. Midland, Texas	s address. oswell, New Mexico bbs, New Mexico Mexico
of such notification Sept.  CERTIFICATE: 1, the undersigned, Petroleum Corporation(com der my supervision and direction and e	state that I am the Dist. From the Dist. From the Lam authorized behat the facts stated therein are	Engineer of the by said company to make this reputrue, correct and complete to the A. J. Inderrieden	e best of my knowledge.
•	protest nor request for hearing	is received by the Santa Fe offic	e Commission's Santa Fe office. If, se, the application will then be processe dard proration unit in either or both of

the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



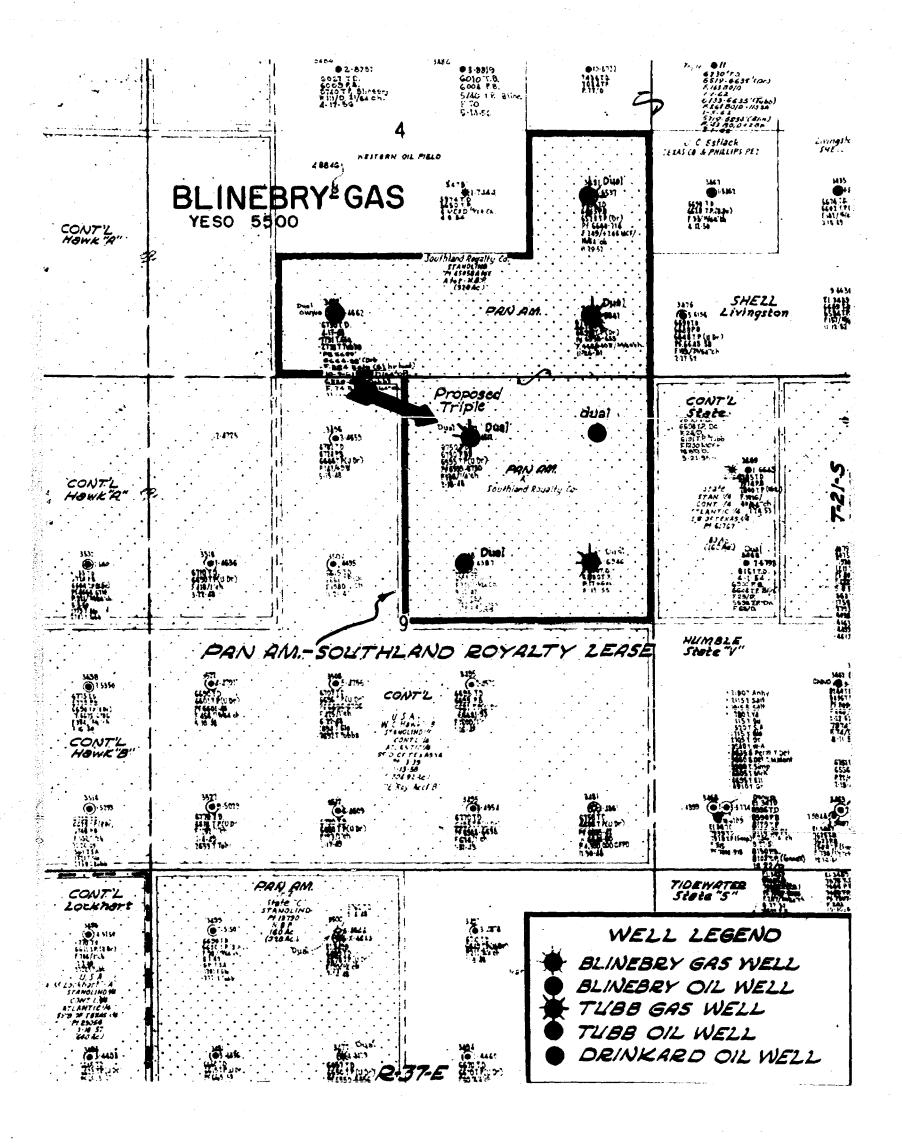
### NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-6

## APPLICATION FOR MULTIPLE COMPLETION

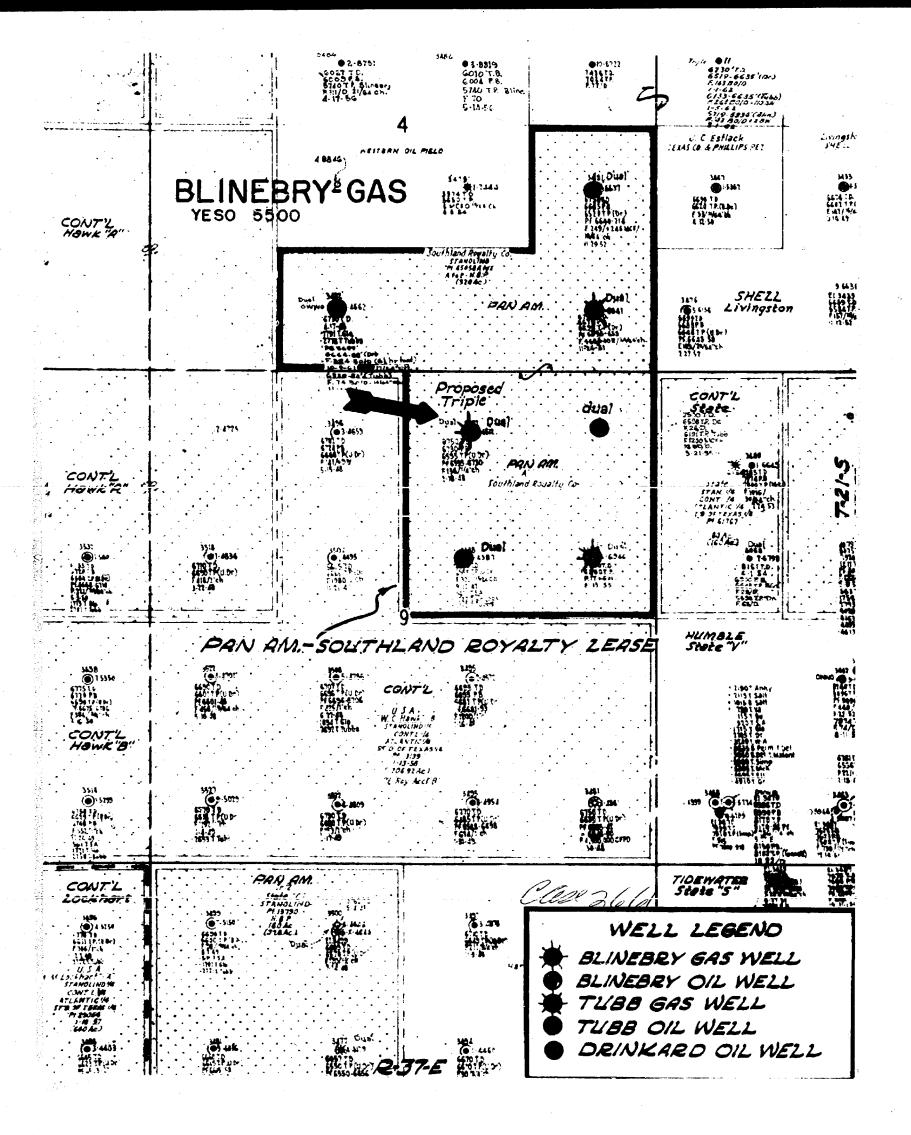
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catio		1 265, 1	ubbook,		Southland Township	HOYALLY	"A" 2	A
i Well	1	ngn	Seci	9	21	South	(CEII)	37 East
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				ect well? YES		*		÷
				nce: Urder No.		erator, Lease	e, and Well No	o.:
		<del></del>	<del> </del>					
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	(Perforation	ens)		log is run.	633	10-6495		6595-6730
€.	Type of prod	uction (Oil	or Gas)	il Anticipated	Gar	)		011
d. 1	Method of Pr			-				
		e Artificial		rk YES of NO)	710	<u> </u>		Plos
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Were	olo Oil	and Ref	ining Co.	notified and furnished a	L. Moneley,	Box 160	O, Midla	. If answer is yes, give date
_CE8	ITIFICATE:	I, the und	ersigned, stat	te that I am the <b>Dist</b>	Engineer	any to make t	of the	shbook Blate, Pen Ameri of that this report was prepared
der m	y supervisio	n and direc	tion and that	the facts stated therein	are true, correct	and complete	to the best	of my knowledge.
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					61.7	In water	rriples	<del>/</del>
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								New Mexico Oil Conservation
								nission's Santa Fe office. If,
TE:	If the propo	sed multipl	e completion	test not request for heari will result in an unortho application for approval o	dox well location	n and/or a no	n-standard p	application will then be processe toration unit in either or both of with this application.



### SANTA FE, NEW MEXICO

## APPLICATION FOR MULTIPLE COMPLETION

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	Box 268, Lubbück	الواقع والمراجع	Southland Royalty "A"	2
catio Well	I New I	Section To	ownship 21 South	Range 37 Rast
		on Commission heretofore auth	orized the multiple completion of	a well in these same pools or in the
	ne zones within one mile of the s		**	
	swer is yes, identify one such in			Well No.:
			, .,,	
The	following facts are submitted:	Upper	Intermediate Zone	Lower
		Zone		Zone
	Name of Poel and Formation	Minebry	Tubb	<u> Drinkerd</u>
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	(Perforations)	leg is run.	6330-6495	6395-6730
<u>c.</u>	Type of production (Oil or Gas)	Oil Anticipated	Gos	011
	Method of Production			
	(Flowing or Artificial Lift)	Flow	Tles	Ties A
lihe	following are attached. (Please	mark YES or NO)		
	and /or turbolizers and lo	cation thereof, quantities used	and top of cement, perforated into	iameters and setting depths, centralizers ervals, tubing strings, including diamete
₩.	and setting depth, location	a and type of packers and side	e door chokes, and such other inf	xmation as may be pertinent.
-			ase, all offset wells on offset lea	ses, and the names and addresses of
98.	operators of all leases offs	~ *,		
			ch offset operator, or in lieu ther	eof, evidence that said offset operators
	have been furnished copie			
				es and intervals of perforation indicated
	mereon. (if such log is not		tion is filéd, it shall be submitted	
1 :				
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Page Page Phoni Page Vere	tall offset operators to the lease timental Oil Co., Attained oil Piolds, Inc., Attained, Inc., Attained, Inc., Attained, Inc., Attained, Inc., Attained oil Company, Attained oil Control Refining Co., all operators listed in Item 5 ab	on which this well is located at Mr. W. A. Hood, & Attn: Mr. R. H. Su. J. G. Lants, Box 310 Mr. R. L. Rankin, B	together with their correct mailin 25 Petroleum Bldg., R merthaut, Box 1147, No 9, Midland, Tunns on 845, Roswell, Mar Honoloy, Box 1600, M	g address. powell, New Mexico bbs, New Mexico Mexico idland, Towns
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### DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 10, 1962

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

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

### CASE 2647:

(Continued)

Application of Carper Drilling Company for a tubingless completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Baetz Well No. 1, located in the SE/4 SW/4 of Section 35, Township 14 South, Range 27 East, Chaves County, New Mexico, as a tubingless gas well completion producing through perforations from 8182-8270' in 2 7/8 inch casing.

### CASE 2654:

Application of Carper Drilling Company for the creation of a new gas pool and for temporary special rules and regulations, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool to be designated the Buffalo Valley-Pennsylvanian Gas Pool for its Baetz Well No. 1, located in the SE/4 SW/4 of Section 35, Township 14 South, Range 27 East, Chaves County, New Mexico. Applicant, further seeks the establishment of temporary special rules and regulations governing said pool, including provisions for 320-acre gas units.

### CASE 2655:

Application of Martin Yates III and S. P. Yates for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order force pooling all mineral interests in the Lusk-Strawn Pool to form a 160-acre oil proration unit comprising the NE/4 of Section 30, Township 19 South, Range 32 East, Lea County, New Mexico, to be dedicated to a well to be drilled in the NE/4 NE/4 of said Section 30.

### CASE 2656:

Application of Western Development Company for a secondary recovery project, East Millman Queen-Grayburg Field, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a secondary recovery project in the East Millman Queen-Grayburg Field, with the injection of water into the Queen and Grayburg formations initially to be through 16 wells, located in Sections 11, 14, 15, 22 and 23, Township 19, South, Range 28 East, Eddy County, New Mexico, said project to be governed by the provisions of Rule 701.

-2-

Docket No. 29-62

Examiner Hearing - Wednesday October 10, 1962

CASE 2657:

Application of Odessa Natural Gasoline Company for a nonstandard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks establishment of a 320-acre non-standard gas proration unit comprising the SE/4 of Section 23 and the NE/4 of Section 26, Township 25 South, Range 37 East, Justis Gas Pool, Lea County, New Mexico, to be dedicated to its Carlson "A" Well No. 1 located in Unit P of said Section 23.

CASE 2658:

Application of Cabot Corporation for temporary special rules and regulations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order promulgating temporary special rules and regulations for the North Bagley-Pennsylvanian Pool, Lea County, New Mexico, including provisions for 80-acre proration units.

CASE 2659:

Application of Cabot Corporation for the creation of a new oil pool and the establishment of temporary rules and regulations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool to be designated the North Bagley-Wolfcamp Pool for its Humble State Well No. 1, located in the NW/4 NW/4 of Section 23, Township 11 South, Range 33 East, Lea County, New Mexico. Applicant further seeks establishment of temporary rules and regulations governing said pool including provisions for 80-acre proration units.

CASE 2660:

Application of Midwest Oil Corporation for the creation of a new oil pool and for the establishment of temporary special rules and regulations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Pennsylvanian production in the vicinity of its LLE State Wel No. 1, located in the NW/4 SW/4 of Section 14, Township 10 South, Range 33 East, Lea County, New Mexico. Applicant further seeks the promulgation of temporary special rules and regulations governing said pool to include provisions for 80-acre provation units and fixed well location requirements.

CASE 2661:

Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Southland Royalty "A" Well No. 2, located in Unit B of Section 9, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce

-3-

Docket No. 29-62

Examiner Hearing - Wednesday October 10, 1962

oil from the Drinkard and Blinebry formations and gas from the Tubb formation through parallel strings of tubing.

CASE 2662:

Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its South Mattix Unit Well No. 14, located in Unit K of Section 15, Township 24 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce gas from the Fowler Paddock and an undesignated Tubb pool, and oil from an undesignated Blinebry pool through parallel strings of tubing.

CASE 2663:

Application of Arnold H. Bruner for permission to directionally drill, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to directionally drill his Federal Intex Well No. 1, the surface location of which is in the center of the NW/4 SE/4 of Section 8, Township 9 South, Range 37 East, Allison Pennsylvanian Pool (extension), Lea County, New Mexico. Target tor said directionally drilled well would be 100 feet from the North and West lines of the NW/4 SE/4 of said Section 8.

CASE 2664:

Application of Scuthwest Production Company for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Davis Federal Well No. 1, located in Unit L of Section 24, Town-ship 26 North, Range 11 West, San Juan County, New Mexico, as a dual completion with production of oil from the Gallup zone and production of gas from the Dakota zone to be through parallel strings of 1 1/4-inch tubing.

# OIL CONSERVATION COMMISSION SANTA FE, NEW DEXICO

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SE	2661	Hearing Date_	gam	Oct 10
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# PAN AMERICAN PETROLEUM CORPORATION

COT 13 AND P. 80. 180x 268 Lubbock, Texas October 12, 1962

File:

WJS-3564-400.1

Subject: Transmittal Revised Attachment III to Exhibit I Case 2661 - Pan American Petroleum Corporation's Application for

Permission To Triple Complete Southland Royalty "A" No. 2

Mr. Dan Nutter, Chief Engineer New Mexico Oil Conservation Commission Box 871 Santa Fe, New Mexico

Dear Sir:

Attached is revised Attachment III to Exhibit I of the subject case, being a copy of Electric Log of this well showing the Blinebry Marker and Base of Blinebry, which was inadvertently omitted from the log (Attachment III) presented in evidence. Also, as requested, we have shown the probable perforating intervals in the Blinebry based on the log from Attachment III. As stated in testimony the exact intervals will be chosen after obtaining an additional log on this well during recompletion operations.

Yours very truly,

A. J. Inderrieden

RES: 1m

Attachment

GOVERNOR EDWIN L. MECHEM CHAIRMAN

# State of New Mexico Oil Conservation Commission

LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER



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

P. O. BOX 871 SANTA FE

October 23, 1962

Re:

Mr. Charles Malone Atwood & Malone Attorneys at Law P. O. Dresser 700 Roswell, New Mexico Order No. 1-2343 Applicant:

Pan American Petroleum Corporation

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ir/ Carbon copy of order also sent to: Hobbs OCC x Artesia OCC\_\_\_\_ Aztec OCC \_\_\_ Mr. Guy Buell 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. 2661 Order No. R-2343

APPLICATION OF PAN AMERICAN PETROLEUM CORPORATION FOR A TRIPLE COMPLETION, LEA COUNTY, NEW MEXICO.

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 10, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, 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>22nd</u> day of October, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Mutter, 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, Pan American Petroleum Corporation, is the owner and operator of the Southland Royalty "A" Well No. 2, located in Unit B of Section 9, Township 21 South, Range 37 East, MRPM, Lea County, New Maxico.
- (3) That the applicant seeks permission to complete said Southland Royalty "A" Well No. 2 as a triple completion (conventional) in such a manner as to produce oil from the Drinkard Oil Pool and from the Blinebry Oil Pool through 2 3/8-inch OD tubing and 2.0-inch OD tubing, respectively, and to produce gas from the Tubb Gas Pool through 2.0-inch OD tubing.
- (4) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will meither cause waste nor impair correlative rights.

-2-CASE No. 2661 Order No. R-2343

### IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to complete its Southland Royalty "A" Well No. 2, located in Unit B of Section 9, Township 21 South, Range 37 East, MMPM, Lea County, New Mexico, as a triple completion (conventional) in such a manner as to produce oil from the Drinkard Oil Pool and from the Blinebry Oil Pool through 2 3/8-inch OD tubing and 2.0-inch tubing, respectively, and to produce gas from the Tubb Gas Pool through 2.0-inch OD tubing.

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.

PROVIDED FURTHER, That the operator shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard Oil Pool, and at such other times as the Secretary-Director of the Commission may prescribe.

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

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

> STATE OF MEW MEXICO OIL COMBERVATION COMMISSION

100

EDWIN L. MECHEM, Chairman

S WALKED Monher

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

# DEARNLEY-MEIER REPORTING SERVICE, Inc.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 11, 1962

### EXAMINER HEARING

IN THE MATTER OF:

Application of Pan American Petroleum Corporation )
for a triple completion, Lea County, New Mexico. )
Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Southland Royalty "A" Well )
No. 2, located in Unit B of Section 9, Township )
21 South, Range 37 East, Lea County, New Mexico, )
in such a manner as to produce oil from the Drinkard and Blinebry formations and gas from the Tubb formation through parallel strings of tubing.)

CASE 2661

BEFORE: Daniel S. Nutter, Examiner

### TRANSCRIPT OF HEARING

MR. NUTTER: Call Case 2661.

MR. DURRETT: Application of Pan American Petroleum

Corporation for a triple completion, Lea County, New Mexico.

(Whereupon, Applicant's Exhibit No. 1 marked for identification.)

MR. MALONE: May it please the Examiner, Charley

Malone for the Applicant, Pan American Petroleum Corporation. We have one witness and one exhibit.

(Witness sworn.)

### ROBERT E. SMITH

called as a witness, having been first duly sworn on oath, testified as follows:



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# DEARNLEY-MEIER REPORTING SERVICE, Inc.

### DIRECT EXAMINATION

### BY MR. MALONE:

- Q Would you state your name and address, please?
- A Robert E. Smith, 4303 39th Street, Lubbock, Texas.
- Q Your occupation?
- A I'm a petroleum engineer, senior grade, Pan American Petroleum Corporation.
- Q You have not testified before this Commission previously, have you?
  - A I have not.
- Q Would you state your college education and the degree and the year of that degree?
- A I received a degree in Bachelor of Science, Electrical Engineering, University of Texas, 1960.
- Q Would you state your background and experience in Petroleum Engineering, please?
- A I went to work for Stanolind Oil and Gas Company, now
  Pan American, in 1961, roustabout trainee, and worked in several
  offices in Midland, Odessa, Andrews, Fort Worth; and I have just
  recently been transferred to Lubbock, in which case I have been
  Operations Engineer and Reservoir Engineer and Evaluation Engineer.
- Q Does the Lubbock office of Pan American have control and jurisdiction over the area with which this application deals?
  - A It does.
  - Q Was Exhibit No. 1 prepared by you?

BANTA FE, N. M. PHONE 983-3671

> BUQUERGUE, N. M. JONE 243.6691

Q And under your supervision?

Yes.

And do you, as senior grade petroleum engineer, have jurisdiction over the area described in this application?

I'm responsible for the reporting of operation to management in this area, yes.

MR. MALONE: Would the qualifications of this witness be satisfactory to the Examiner?

MR. NUTTER: Yes, sir. Please proceed.

(By Mr. Malone) Would you state in a summary form what Pan American requests in this application?

We are requesting permission to triply complete an existing dual well in the Drinkard oil and Tubb gas pools of Lea County, with the Blinebry oil pool of Lea County. The subject well was dually completed in 1954 and is now an existing dual.

In other words, this is a work-over to include by triple completion the production of oil from the Blinebry?

That is right.

Now then, where does the Blinebry lie with respect to the Drinkard and Tubb?

The Blinebry lies immediately above the Tubb formation. Exhibit 3, or attachment 3 of Exhibit 1 is an electrical log of the subject well with the top of the Glorieta marked -- I'm sorry, the top of the -- I beg your pardon, we have mis-marked this log.



This log should show top of Blinebry and base of Blinebry. This was certainly an oversight.

Q Now then, is this well, the Soutland Royalty "A" No. 2 Well, within the defined limits of pools designated for the production of these hydrocarbons?

- A It is.
- Q In all three zones?
- A Yes.
- Q Attached to your application there was a map showing the offset operators, was there not?
  - A That is right.
- Q Was notice to those offset operators given by Pan American?

A It was given by Pan American in letter of application, attachment or the application showing the offset operators shown as Attachment 4..

Q In other words, the letter to the Commission dated September 11, 1962, which made this application, was forwarded to all effset operators on that date with a copy or the printed form required by the Commission attached to it, is that correct?

- A That is right.
- Q And that printed form appears as the last entry in Exhibit 1?
  - A That is correct.
  - Q Would you briefly discuss the proposed triple?



# REPORTING SERVICE, DEARNLEY-MEIER

If you will refer to Attachment 2, it shows a schematic of the proposed triple.

Q Schematic drawing?

Yes, schematic drawing. This well was drilled in 1947. completed in February of 1948, as a Drinkard single. 7-inch casing was set at a depth of 6740, cemented with 3,000 sacks. Perforations are shown, three sets. It was completed there and produced there until 1954, until which time we received permission to dual it in the Tubb. A Baker Model "D" Packer was set at 6550 feet. We now propose to perforate the Blinebry in an interval to be selected after running another set of logs from somewhere between 5816 and 5956 feet. We will set a second packer; actually we have shown setting a new packer and abandoning the old packer. This will be done after pulling the seal elements, and if they are in such condition that we feel the bottom packer will not hold, we'll run a new packer.

We will then set a packer in between the Tubb and the Blinebry and run three strings of tubing, as shown.

So that if the application were granted and this mechanism installed, you would produce the Blinebry oil from the top zone in the new perforations, the Tubb gas from the middle zone, and the Drinkard oil from the lowest zone, is that correct?

That is correct.

Is there anything further with respect to this schematic drawing?

# REPORTING DEARNLEY-MEIER

Nothing other than to elaborate that this well was completed using three strings of casing originally with 9-5/8 inch casing set at 1409 and cemented with 700 sacks of cement. and surface set at 200 feet. Both the upper strings, our records are vague on whether cement actually circulated on the intermediate string or not. Checking the drilling reports indicated that they cleaned and completed the sealers as though they received cement to the surface.

This would be a conventional triple completion through the use of three strings of 2-inch tubing, is that correct?

That is correct.

Going to Attachment No. 3, you've stated that this is a log of the well and that you would like to correct one of the markings in it?

That is correct.

Which one is that?

The top and bottom Glorieta should be marked top and bottom Blinebry.

In other words, all you would fike to do is substitute the word "Blinebry" on that log wherever the word "Glorieta" appears, is that correct, or am I incorrect?

May I check something here to be sure?

Yes. Q

That was an oversight. What has happened here, in copying the data off the completion report, we show the top of



the Glorieta as correct. We inadvertently left out the Blinebry and I do not have the Blinebry top marked on this log, which I will have to put on there. Without another log to correlate it with right now, I do not have that exact top.

Q Are you willing, upon your return to Lubbock, to mail a letter to the Commission showing the tops on the Blinebry?

A I am.

MR. NUTTER: With the perforated interval.

A Yes. That was certainly an oversight. I don't know how it happened.

Q With respect to Attachment No. 4 in Exhibit 1, this is the information required by the Commission through its printed form, is that correct?

A That is correct.

Q With respect to correlative rights, Mr. Smith, in your opinion would the correlative rights of any offset owner be adversely affected if the Commission granted the right to triply complete in the manner requested?

A They would not.

Q With respect to the correlative rights of the Applicant, Pan American, would those rights be protected by the granting of the application?

A Yes, they would. Pan American would be entitled to recover their fair share of hydrocarbon.

That necessarily brings into play the question of



ing of this application? Yes. Economic waste would be prevented. We would be permitted to triply complete in lieu of having to drill additiona wells to develop this Blinebry oil.

It would be obviously true that the cost of a triple in this well would only be a fraction of the cost of another well?

economic waste. Would economic waste be prevented by the grant-

That is right.

Do you have anything further to offer to the Commission in your testimony as to this application, Mr. Smith?

No, I do not.

MR. MALONE: That completes our direct examination, Mr. Examiner.

MR. NUTTER: Does anyone have any questions of Mr. Smith?

### CROSS EXAMINATION

### BY MR. NUTTER:

I note that Blinebry oil will be produced through 1.67 I.D. tubing. Will it be possible artificially to lift the Blinebry if that becomes necessary?

It may not be. I believe, though, that if it becomes necessary that some method of gas lift or other means will be devised to run a macaroni string or one-inch string of some nature down there to artificially lift it.

Now the old Model "D" packer that's set at 6550, that



may be used or may not, depending on the condition of the seals?

A True. This was prepared to show what it would look like if we abandoned that old packer, yes.

- Q What is the Otis type "WA" Packer?
- A This is a permanent type packer, a competitive packer with the Model "D".
- Q You stated you didn't know whether the cement had circulated on the two upper strings of pipe. Do you have the top of the cement on the seven-inch?

No, sir. In cementing this seven-inch casing, it was actually stage cementing with some difficulty. We ran a Baker multiplex collar at about 5395 and attempted to cement, stage cement, and in doing so it appeared that the wiper plug opened this staging tool and we did not get initial cement. We went back in, then, with 400 sacks of cement. They didn't follow the plug down all the way initially, because they were afraid of cutting out this seat in the staging tool; they didn't know how far it had got, but we went ahead and re-cemented again, in which case it looks like we put away about 330 sacks on the second cement of this lower interval. We then ran the go-devil and tried to open the pours, they didn't open. We ran a temperature survey, we couldn't tell for sure where the top of the cement was, and they perforated then immediately at 5400 feet and attempted to break circulation and could not, and a closer re-examination of the temperature survey indicated that there was a temperature



# DEARNLEY-MEIER REPORTING SERVICE,

ALBUQUERQUE, N. M PHONE 243.6691

gradient break at 4575, and a second at 3,080. We then assumed that we had cement up above the interval, which was at that time the Drinkard, and went ahead to try and tie this in to cover up into the salt. We ran 2600 sacks of cement, at which time they got the plug down to 100 feet above the perforated interval. I beg your pardon, we perforated at 3,075 then and we stopped it. At that time it had circulated out about 25 sacks of cement. There's a possibility of a slight void in here; however, on packet leakage test and everything of the Tubb and Drinkard, we had no indication that we had a bad cement job. We feel like that the cement adequately covers the Blinebry formation.

Is it your opinion that the Blinebry and the Tubb is separated by cement behind the plug?

Α Yes, sir. Of course, after we go in and test we'll know for sure, but right now we believe it is adequately protected based on temperature survey, which did indicate that we received cement up to 4525 feet at least.

Has the Blinebry actually been perforated as yet?

No, it has not. One other thing in closing I failed to mention was that the Blinebry at this location is currently committed to our Southland Royalty "A" No. 6 for gas, in which case if the well is successfully completed as a Blinebry oil, this 40 acres of course will be removed from the proration unit.

Well, on this 160-acre lease, you already have two Q Blinebry oil wells?



DEARNLEY.MEIER REPORTING SERVICE,

That's right, yes, sir. This Blinebry oil in No. 6 Α or the Blinebry gas in No. 6 approaches but not quite a Blinebry oil classification of the 51 degree gravity oil, and less than 32 cubic feet per barrel ratio.

MR. NUTTER: Any further questions of Mr. Smith? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further in this case Mr. Malone?

MR. MALONE: We have nothing further.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2661? We will take the case under advisement.

STATE OF NEW MEXICO COUNTY OF BERNALILLO

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing was reported by me in stemotype, and that the same is a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this 29th day of October, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

My Commission that ithe storegoing to complete record of the proceedings

New Mexico Oil Conservation Commission

### DISCUSSION

Pan American Petroleum Corporation respectfully requests that the New Mexico Oil Conservation Commission grant permission to triple complete its Southland Royalty "A" No. 2, an existing dual well in the Drinkard (oil), Tubb (gas) Pools with the Blinebry (oil) Pool of Lea County, New Mexico.

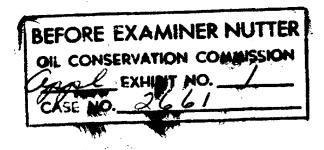
The Southland Royalty "A" No. 2 is located 660 feet from the north line and 1980 feet from the east line, Section 9, T-21-S, R-37-E, which is approximately four miles north of Eunice, New Mexico.

This well is located in a multipay area as indicated by Attachment I, a plat of the area. The east offset and south offset to the Southland Royalty "A" No. 2 are Pan American's Southland Royalty "A" Nos. 7 and 1, respectively, both dual Blinebry-Drinkard (oil) wells. The well offset is the Continental USA-W. C. Hawk B-9 Well No. 3, a Tubb (gas)-Drinkard dual. Blinebry (gas) for the subject well is currently committed to the Pan American Southland Royalty "A" No. 6, a diagonal southeast offset. Subject acreage is to be removed from the proration Unit Well No. 6 if the Southland Royalty "A" No. 2 is successfully triplely completed in the Blinebry (oil).

Attachment II is a diagramatic sketch showing the mechanical aspects of the proposed triple completion. This is a "conventional" triple completion utilizing separate tubing strings to produce each zone separately and packers to maintain separation in the well bore. This installation will permit safe and efficient production of oil from these three reservoirs.

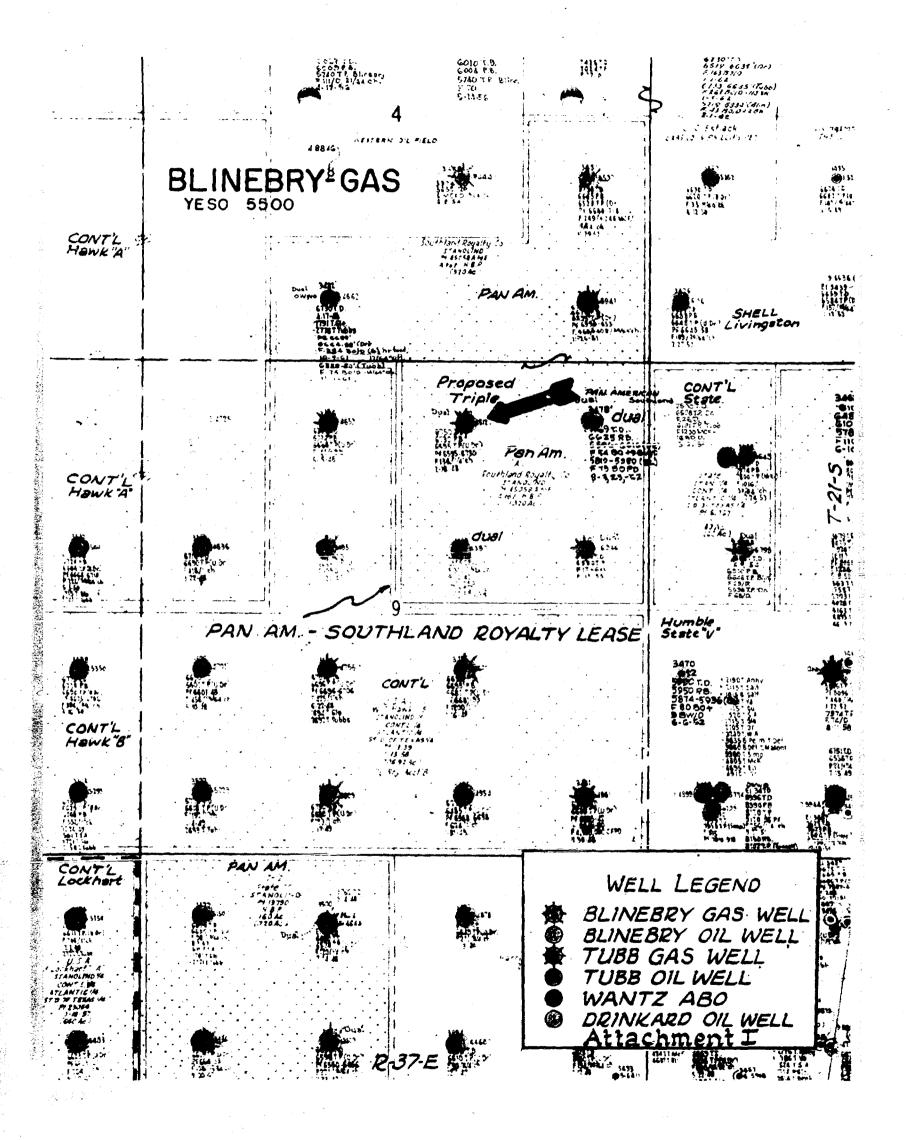
Attachment III is an Electrical Log of the Southland Royalty "A" No. 2 with top and bottom of the producing zones and the perforated intervals marked in red.

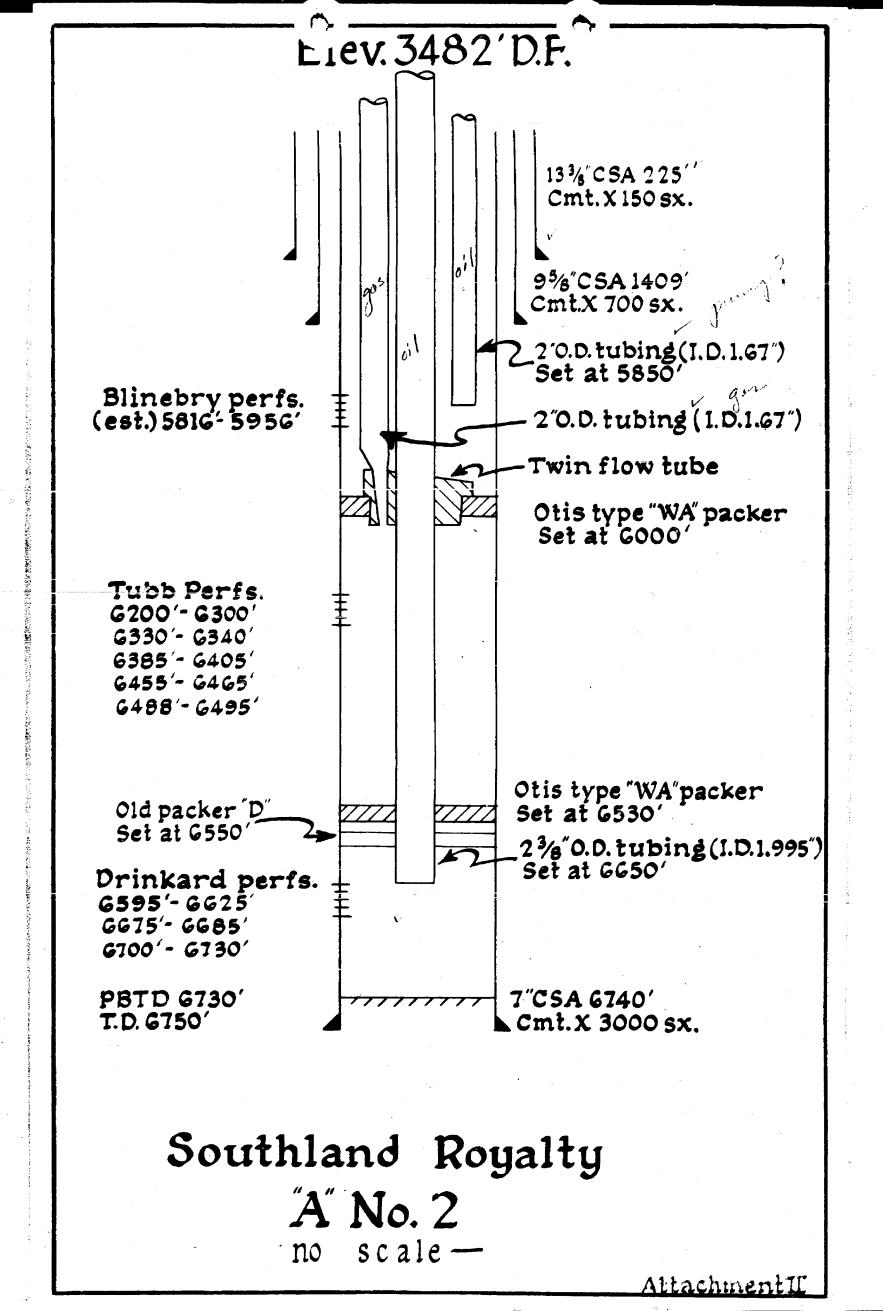
For convenience, Attachment IV is a copy of Pan American's application for multiple completion of the Southland Royalty "A" No. 2. A copy of the application was furnished each offset operator.



PAN AMERICAN PETROLEUM CORPORATION
APPLICATION FOR PERMISSION TO TRIPLE
COMPLETE ITS SOUTHLAND ROYALTY "A" NO. 2
UNIT "B", SECTION 9, T-21-S, R-37-E,
LEA COUNTY, NEW MEXICO, IN THE DRINKARD
(OIL), TUBB (GAS), AND BLINEBRY (OIL)
POOLS IN LEA COUNTY.

CASE 2661 October 10, 1962





### SANTA FE, NEW MEXICO

### APPLICATION FOR MULTIPLE COMPLETION

Pen American Petro	leum Corporation	County Lea	September 11, 1962
ireas	Ta (45	Lease Southland Royalty "A	Weli No.
Box 268, Lubbock,	Section	Township	Range
reii nBu	•	21 South	37 East
Has the New Mexico Oil Connerva	tion Commission beretofore at		of a well in these same pools or in the
same zones within one mile of the			· · · · · · · · · · · · · · · · · · ·
It answer is yes, identify one such			Veli No.:
· ·		, operator, more particular, and	
4		•	
The following facts are submitted:	Ilmae	Intermediate	Lowet
	Upper	Zone	Zone
a. Name of Pool and Formation	Blinebry	Tubb	Drinkard
b. Top and Buttom of			
Pay Section	To be selected	after 6330-6495	6595-6730
(Perforations)	log is run		
c. Type of production (Oil or Gas)		Gas	oil
d. Method of Production			
(Flowing or Artificial Lift)	Flow	Flow	Flow
The following are attached. (Pleas	e mark YES of NO)		•
List all offset operators to the lease continental Oil Co. At Vestern Oil Fields, Inc.	e on which this well is located in the control of t	, 825 Petroleum Bldg.,	ng address. Roswell, New Mexico
Texaco, Inc., Attn: Mr	. W. C. Lents, Box	3109, Midland, Texas	
Shell Oil Company, Attn	: Mr. R. L. Rankin	, Box 845, Roswell, Ne	w Mexico
Humble Oil and Refining	Co., Attn: Mr. H.	L. Hensley, Box 1600,	Midland, Texas
		copy of this application? YES	X NO If answer is yes, give de
of such notificationSept.	11, 1962	•	
	•	<b>—</b> •	Tubback Dist - Dam Aman
CERTIFICATE: I, the undersigned	i, state that I am the <u>Dist</u>	Engineer of t	he Lubbock Dist., Pan Amer
rolem Corporation (co	mpany), and that I am authoriz	zed by said company to make this t	eport; and that this report was prepared
der my supervision and direction and	that the facts stated therein	A. J. Indernia	
		Cinned By	e en
	4	A. J. Inderrieden	Signature
Should waivers from all offset	operators not accompany an i	application for administrative appre	oval, the New Mexico Oil Conservation
Commission will hold the appl	ication for a period of twenty	(20) days from date of receipt by t	he Commission's Santa Fe office. If,

after said twenty-day period, no process not 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 protetion unit in either or both of