

Case No.

1612

Application, Transcript,  
Small Exhibits, Etc.



NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

Revised 7-1-55

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well  
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, ~~provided this form is filed during calendar month of completion or recompletion.~~ The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Robbs, New Mexico February 18, 1979

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Montage Oil & Gas Company

State       

Well No. 1-30

in SW

1/4

1/4

(Company or Operator)

(Lease)

B

Sec. 30

T 12S

R 24E

NMPM.

Willard

Pool

San Luis

San

County. Date Spudded 2/7/79

Date Drilling Completed 2/12/79

Please indicate location:

Elevation 4805 ft

Total Depth 12,100'

PSTD 13,045'

Top Oil/Gas Pay 10,210'

Name of Prod. Form. Upper Perm

PRODUCING INTERVAL -

Perforations 10,210-10,234 10,230-10,238 w/ 1st shot 2/7

Open Hole

Depth

Casing Shoe

Depth

Tubing 12,920'

OIL WELL TEST -

Natural Prod. Test:        bbls. oil,        bbls. water in        hrs.        min. Size       

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of

load oil used): 288 bbls. oil, 0 bbls. water in 24 hrs.        min. Size 14/64"

GAS WELL TEST -

based on 48 SC in 4 hrs. GGR 45° Corr- 60M 47501

Natural Prod. Test:        MCF/Day; Hours flowed        Choke Size       

Logging, Casing and Cementing Record

Sur Feet Sea

13-3/8"	288'	300' on
9-5/8"	4128'	1730' on
7"	13,085'	730' on
2" tbg set at 12,920'		

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment:        MCF/Day; Hours flowed       

Choke Size        Method of Testing:       

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and

sand): 3000 gal 12%

Casing Tubing 2 1/2" x 13.30 lb/ft first new

Press. 2 1/2" x 13.30 lb/ft run to tanks

2/12/79

Oil Transporter: Service Pipe Line Company

Gas Transporter: None at present

Remarks: Producer set @ 12,875'

Deal string production producer set at 10,190'

This well has application for dual completion, Pennsylvania oil and Devonian gas distillate. This form filed for allowable in Pennsylvania only.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Montage Oil & Gas Company

Approved       , 19       

(Company or Operator)

OIL CONSERVATION COMMISSION

By:       

(Signature)

By:       

Title Production Manager

Send Communications regarding well to:

Title       

Name Box 1205 Willard, Texas

Address

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Form C-110

Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

FEB 23 AM 10:15

Company or Operator Santiago Oil & Gas Company Lease State  
Well No. 1-30 Unit Letter B S 30 T 12 R 34 Pool Wildcat (Pennsylvania)  
County 1st Kind of Lease (State, Fed. or Patented) State  
If well produces oil or condensate, give location of tanks: Unit B S 30 T 12 R 34  
Authorized Transporter of Oil or Condensate Service Pipe Line Company  
Address San 137 Midland, Texas  
(Give address to which approved copy of this form is to be sent)  
Authorized Transporter of Gas None  
Address \_\_\_\_\_ Date Connected \_\_\_\_\_  
(Give address to which approved copy of this form is to be sent)  
If Gas is not being sold, give reasons and also explain its present disposition:  
Being flared at present - when underground gas connection is made, new C-110  
will be filed.

Reasons for Filing: (Please check proper box) New Well (X)  
Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )  
Change in Ownership \_\_\_\_\_ ( ) Other \_\_\_\_\_ ( )  
Remarks: \_\_\_\_\_ (Give explanation below)

**This form filed for transportation only, dual completion**

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 18th day of February 19 57

By Richard B. Bauder  
Production Manager

Approved \_\_\_\_\_ 19 \_\_\_\_\_

Title \_\_\_\_\_

OIL CONSERVATION COMMISSION

Company Santiago Oil & Gas Company

By \_\_\_\_\_

Address San 137 Midland, Texas

Title \_\_\_\_\_

NEW MEXICO  
OIL CONSERVATION COMMISSION

PACKER LEAKAGE TEST

RECORDED 4-1-59  
STATE LAND OFFICE  
SANTA FE, N.M.

Operator Santiago Oil & Gas Co Pool (Upper Completion) Pennsylvanian  
Lease State Well 1-30 Pool (Lower Completion) Devonian  
Location: Unit A, S. 30, T18S, R34E, Lea Co., 25 N. M.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	<u>10:00PM 2-15-59</u>	<u>10:00 PM 2-15-59</u>
Pressure stabilized at (hour, date).....	<u>Not known</u>	<u>Not known</u>
Length of time required to stabilize (hours).....	<u>Not known</u>	<u>Not known</u>

Flow Test No. 1

Test commenced at (hour, date) 7:00 A. M. 2-17-59 Choke size 20/64  
Completion producing Penn Completion shut-in Devonian

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test.....	<u>1100</u> psi	<u>3300</u> psi
Maximum pressure during test.....	<u>1100</u> psi	<u>3300</u> psi
Minimum pressure during test.....	<u>400</u> psi	<u>3300</u> psi
Pressure at end of test.....	<u>300</u> psi	<u>3300</u> psi
Maximum pressure change during test.....	<u>700</u> psi	<u>0</u> psi
Oil flow rate during test: <u>388</u> BOPD based on <u>48</u> BC in <u>4</u> hours.		
Gas flow rate during test: <u>137.3</u> MCFPD based on <u>22.0</u> MCF in <u>4</u> hours.		

Mid-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	<u>11:00 AM 2-17-59</u>	<u>10:00 PM 2-15-59</u>
Pressure stabilized at (hour, date).....	<u>3:00PM 2-17-59</u>	<u>Not known</u>
Length of time required to stabilize (hours).....	<u>4 hrs</u>	<u>Not known</u>

Flow Test No. 2

Test commenced at (hour, date) 5:00 PM 2-17-59 Choke size 16/64  
Completion producing Devonian Completion shut-in Penn

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test.....	<u>1000</u> psi	<u>3300</u> psi
Maximum pressure during test.....	<u>1050</u> psi	<u>3300</u> psi
Minimum pressure during test.....	<u>1000</u> psi	<u>2400</u> psi
Pressure at end of test.....	<u>1050</u> psi	<u>2400</u> psi
Maximum pressure change during test.....	<u>50</u> psi	<u>700</u> psi
Oil flow rate during test: <u>438</u> BOPD based on <u>73</u> BC in <u>4</u> hours.		
Gas flow rate during test: <u>1.600</u> MCFPD based on <u>6.7</u> MCF in <u>4</u> hours.		

Test performed by John M. West Title Engineer

Witnessed by Delma Barcen Title Production Supt.

REMARKS: This reported as if it were oil so far as this form is set up.  
Actually the fluid from the Devonian section is a 62 API gravity  
condensate or distillate.

NOTE: Recording gauge pressure charts, test data sheet, and a graphic depiction of all phases of the test shall be submitted with this report.

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by Oil Conservation Commission of the State of New Mexico for this packer leakage test were complied with and carried out in full, and that all dates and facts set forth in this form and all attached material are true and correct.

John M. West For John West Engineering  
(Representative of Company Making Test) (Company Making Test)

SWORN TO AND SUBSCRIBED before me this the 19th day of February, 1959, 1959

B. E. M. M. M.  
Notary Public in and for the County of Lea,  
State of New Mexico

(OVER)

INSTRUCTIONS  
(FOR NEW WELLS ONLY)

1. At least 24 hours prior to the commencement of this test, the operator shall notify the District Office of the Oil Conservation Commission in writing of the exact time said test is to be commenced.
2. The packer leakage test shall commence with both sides of the completion shut-in. Both sides of the completion must be shut-in a sufficient length of time to allow for complete stabilization of both wellhead pressures, and for a minimum of 2 hours thereafter- this minimum of 2 hours shut-in must show on the charts of the pressure recorder and also must appear on the data sheet.
3. For Flow Test No. 1, one side of the dual completion shall be produced with the other side shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter, and shall be at a rate of flow approximating the normal rate of flow for the zone being produced.
4. Following the completion of flow test No. 1, the well will again be shut-in, and remain so until the wellhead pressures have again become stabilized and for a minimum of 2 hours thereafter.
5. Flow Test No. 2 shall be performed with the previously shut-in side of the dual completion flowing and with the flowing side of the completion used in test number 1 remaining shut-in. This test shall be conducted exactly as outlined under Flow Test No. 1, and must be performed even though no leak was indicated by Flow Test No. 1.
6. All pressures, throughout the entire test, must be continuously measured and recorded with recording pressure gauges.
7. The accuracy of the recording gauges shall be checked at regular intervals throughout the test with a dead weight test gauge, and such readings shall be recorded on the test data sheet provided.
8. For any well on which the wellhead pressures will not stabilize in (24) twenty four hours or less, the minimum producing or shut-in time allowed for stabilization shall be (24) twenty-four hours.
9. This form must be completed and filed in duplicate with the District Office of the Oil Conservation Commission within 15 days following the completion of the testing, and must be accompanied by:
  - a. all of the charts, or copies thereof, used on the pressure recorders during the test.
  - b. the test data-sheet (s), or copies thereof, required under paragraph 7 above.
  - c. a graph depicting the pressures and their changes, for both sides of the completion over the entire test.
10. This packer leakage test shall be performed upon dual completion of any new wells so approved by the Commission. This test shall also be required each year during the annual GOR test for the lowermost oil zone or oil pool so concerned. The Commission may also request packer leakage tests at any time they feel that a new test is desirable.

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

6-1-56

PACKER-SETTING AFFIDAVIT  
(Dual Completions)

STATE OF New Mexico )  
County of Los ) ss

John Brown, being first duly sworn according to law, upon his oath deposes and says:

That he is of lawful age and has full knowledge of the facts herein below set out.

That he is employed by Santiago Oil & Gas Co. in the capacity of Production Manager and as such is its authorized agent.

That on Feb. 8, 1952, he personally supervised the setting of a Behr Model K in Santiago Oil & Gas Company's's  
(Make and Type of Packer) (Operator)

State Well No. 1-32, located in Unit  
(lease)  
Letter 2, Section 32, Township 12, Range 34, NPM,  
Los County, New Mexico.

That said packer was set at a subsurface depth of 12.375 feet,  
said depth measurement having been furnished by Schlumberger.

That the purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the commingling, within the well-bore, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. That this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

Santiago Oil & Gas Company  
(Company)

John Brown  
(its Agent)

Subscribed and sworn to before me this the 19th day of Feb., 1952.

John Brown  
Notary Public in and for the County  
of Los

My Commission Expires 12/30/61.

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>San Diego</b>		County <b>San</b>	Date <b>2/10/58</b>
Operator <b>San Diego Oil &amp; Gas Company</b>		Lease <b>State</b>	Well No. <b>1-1</b>
Location of Well <b>5</b>	Section <b>20</b>	Township <b>22 South</b>	Range <b>24 West</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same section within one mile of the subject well? YES ☐ NO ☒

2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Upper Permian</b>	<b>Lower Permian</b>
b. Top and Bottom of Pay Section (Perforations)	<b>22,500-22,504; 22,505-22,508</b>	<b>22,509-22,512</b>
c. Type of production (Oil or Gas)	<b>Oil</b>	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)	<b>FL</b>	<b>FL</b>

4. The following are attached. (Please mark YES or NO)

- ☒ a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- ☒ b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- ☐ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. \* **Operators being sent copies by registered mail**
- ☒ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

<b>San Antonio Petroleum Corporation</b>	<b>Box 200, Midland, Texas</b>
<b>Texas Pacific Oil and Gas Co.</b>	<b>Box 400, Midland, Texas</b>
<b>Midland Petroleum Company</b>	<b>Box 700, Midland, Texas</b>
<b>San Antonio Petroleum Corporation</b>	<b>Box 200, Midland, Texas</b>
<b>E. A. Henson</b>	<b>Box 600, Roswell, New Mexico</b>

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ If answer is yes, give date of such notification **2/10/58**

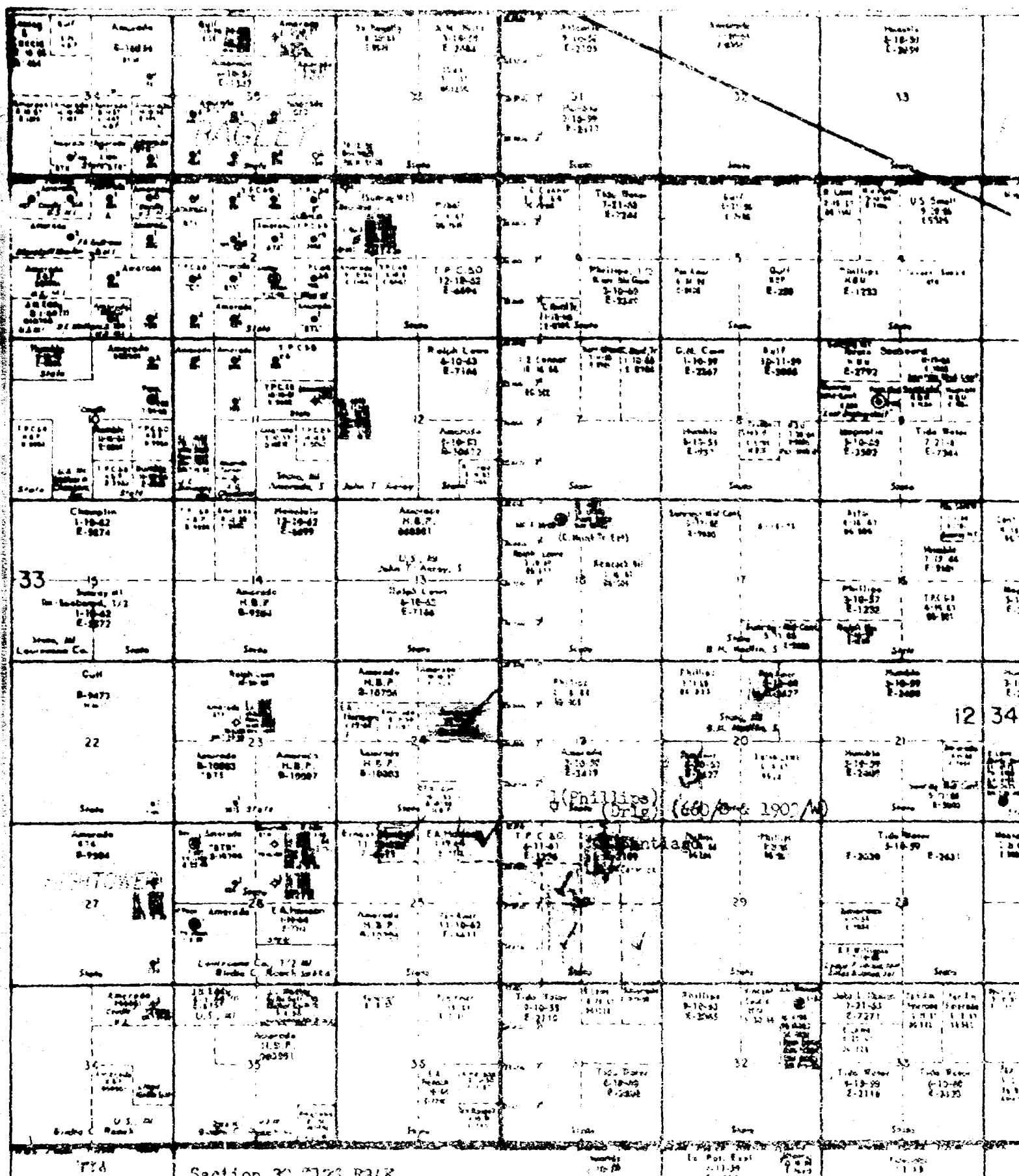
CERTIFICATE: I, the undersigned, state that I am the **Production Manager** of the **San Diego Oil & Gas Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*Delma Barcena*  
Signature

\* 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 dual completion will result in an unorthodox well location and/or a non-standard production unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





Section 30 T12S R34E

Santiago Oil & Gas Company

State No. 1-30

60 A. & 1900/8 To be Dual

Offset in Section 29:

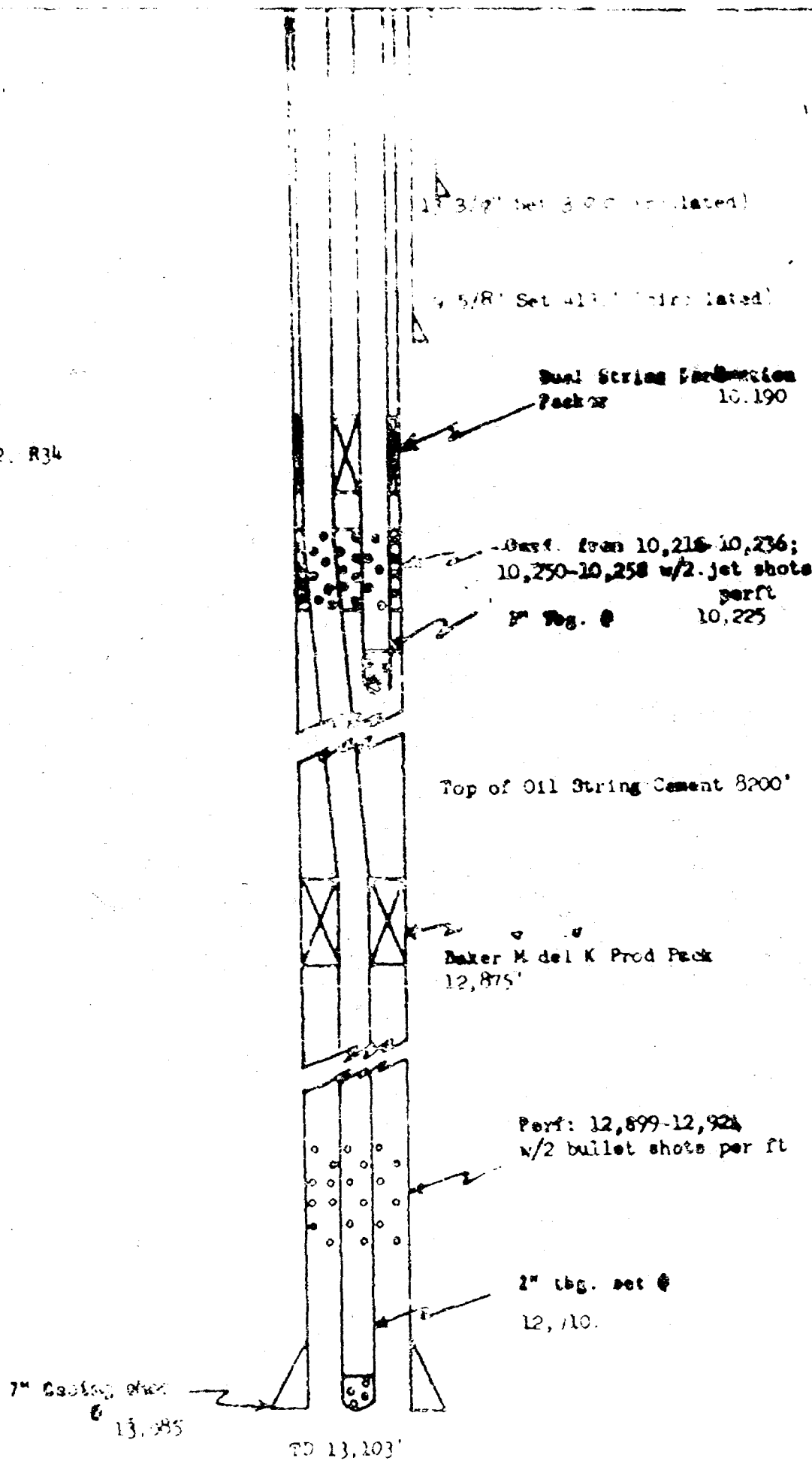
G. McCORMICK and ASSOCIATES

STATE 1-30 LEASES

LEA COUNTY, NEW MEXICO

"EXHIBIT C"

Santiago Oil & Gas Company  
 State 1-10 Well No. 1  
 Unit B. Section 30, Twp 12. R34  
 Wilcox  
 Lea County, New Mexico



SANTIAGO OIL AND GAS COMPANY

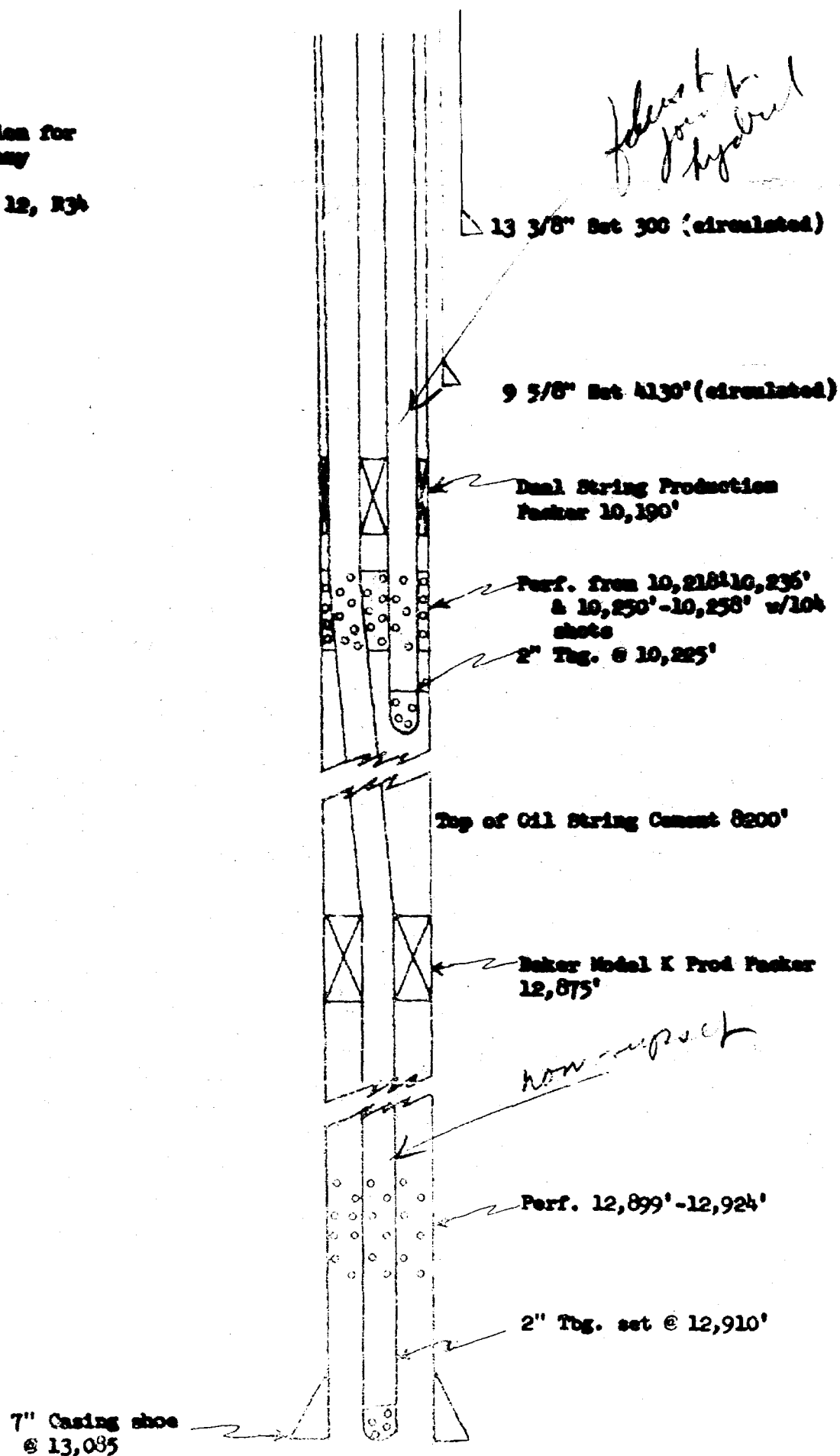
BOX 1205

MIDLAND, TEXAS

Commissioner of Public Lands  
Santa Fe, New Mexico

Attention: Oil & Gas Division

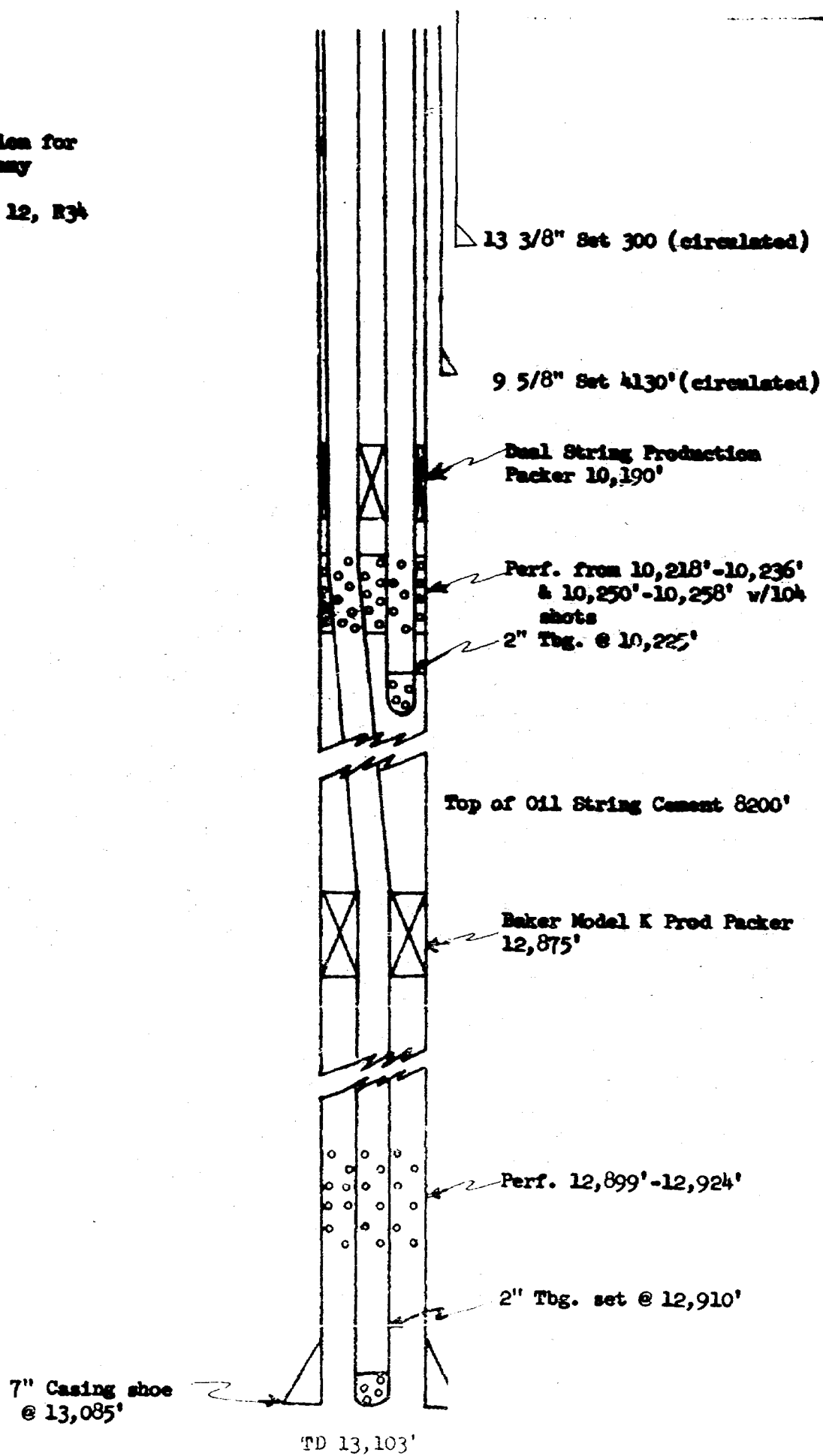
Details of Well Completion for  
 Santiago Oil & Gas Company  
 State 1-38, Well No. 1  
 Unit B, Section 38, Twp 12, R34  
 Wilcox  
 Lea County, New Mexico



ED 13,107

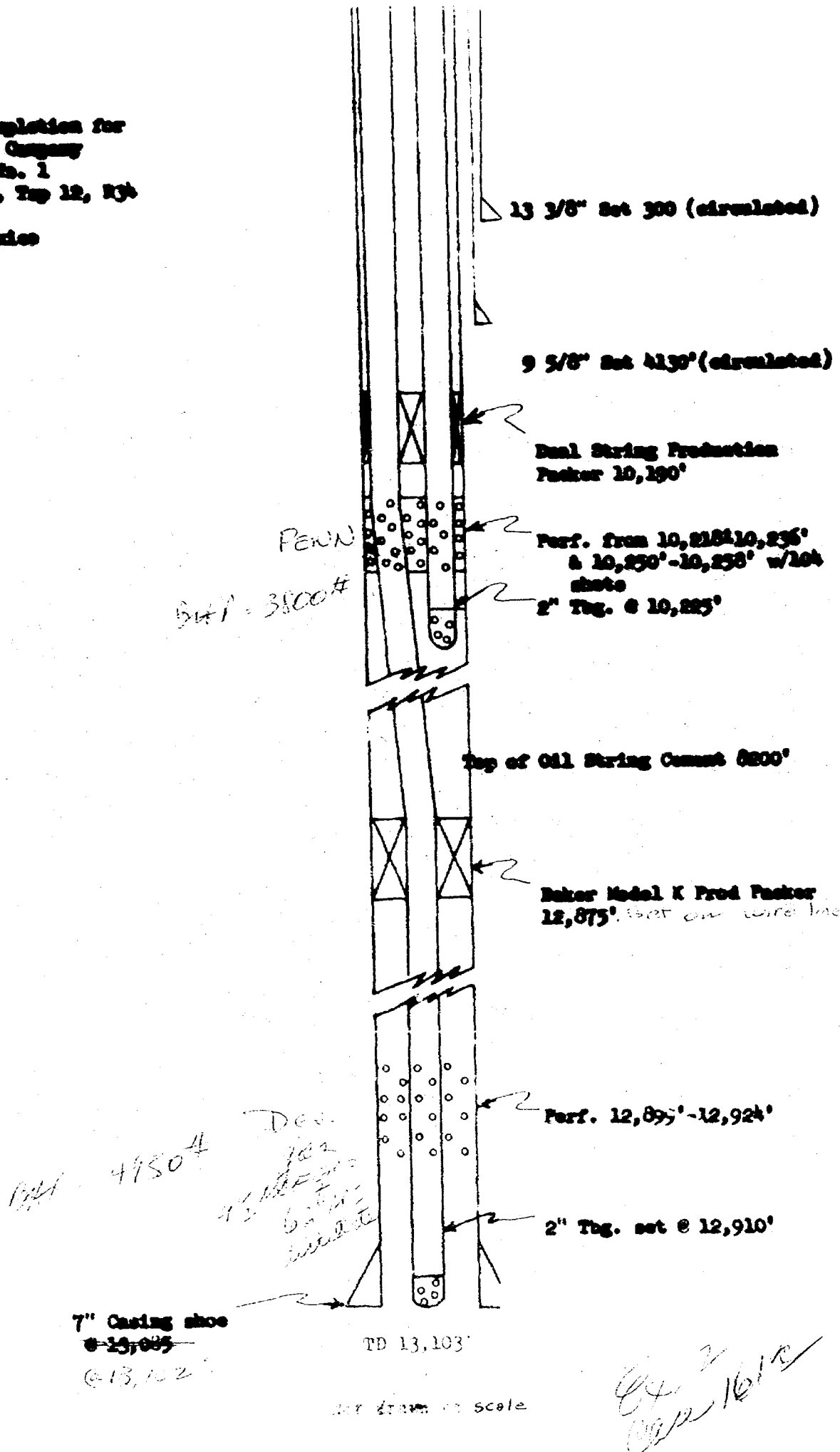
Drawn to scale

Details of Deal Completion for  
 Santiago Oil & Gas Company  
 State 1-30, Well No. 1  
 Unit B, Section 30, Twp 12, R34  
 Wilcox  
 Lea County, New Mexico



Not drawn to scale

Details of Well Completion for  
 Santiago Oil & Gas Company  
 Lease 1-38, Well No. 1  
 Unit 2, Section 38, Twp 12, R3  
 Wilbourn  
 Lea County, New Mexico



**SANTIAGO OIL & GAS COMPANY**

BOX 1205

MU 2-7971

2205 WILCO BUILDING

MIDLAND, TEXAS

**Names and addresses of Offset Operators**

Pan American Petroleum Corporation, Lubbock, Texas

Texas Pacific Coal & Oil Co., 511 W. Ohio, Midland,  
Texas

Phillips Petroleum Co., Permian Bldg., Midland,  
Texas

Amerada Petroleum Corp., Petroleum Life Bldg.,  
Midland, Texas

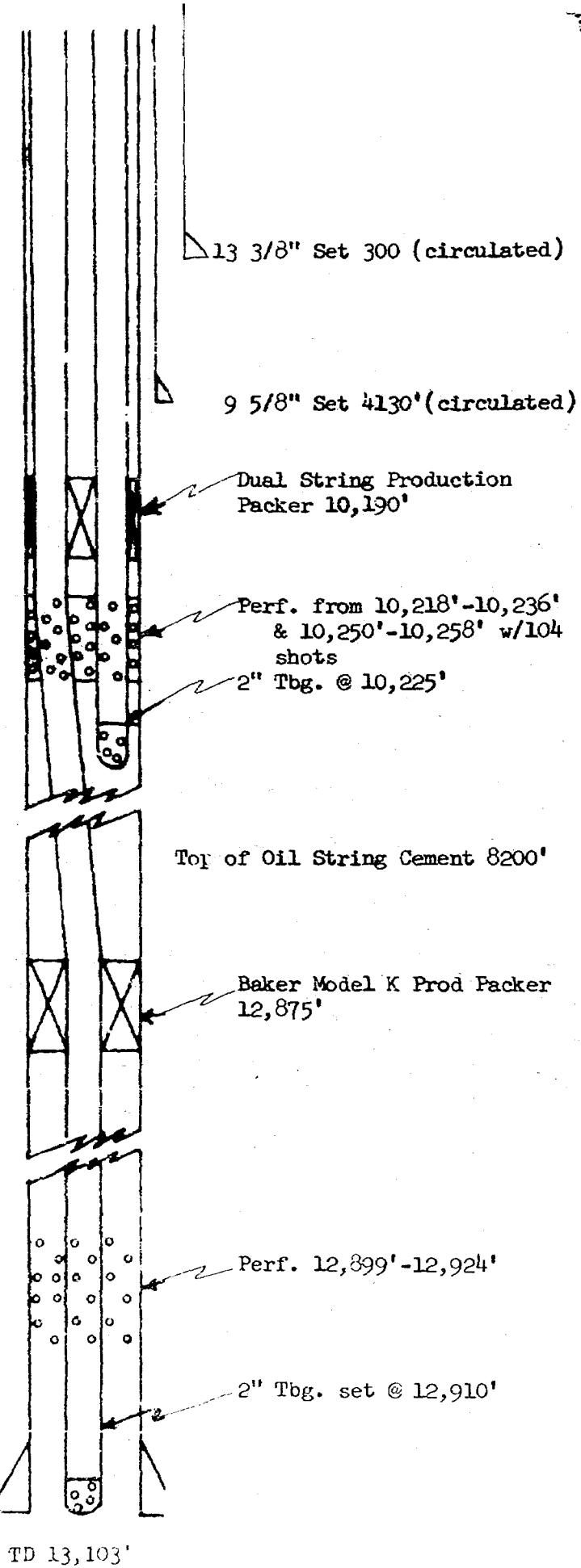
E. A. Hanson, Box 852, Roswell, New Mexico

Details of Dual Completion for  
Santiago Oil & Gas Company  
State 1-30, Well No. 1  
Unit B, Section 30, Tsp 12, R34  
Wildcat  
Lea County, New Mexico

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
*Santiago* EXHIBIT NO. 2  
CASE NO. 1612

*Valid Permit  
13102*

7" Casing shoe  
~~@ 13,089'~~  
*13102*



13 3/8" Set 300 (circulated)

9 5/8" Set 4130' (circulated)

Dual String Production  
Packer 10,190'

Perf. from 10,218'-10,236'  
& 10,250'-10,258' w/104  
shots  
2" Tbg. @ 10,225'

Top of Oil String Cement 8200'

Baker Model K Prod Packer  
12,875'

Perf. 12,899'-12,924'

2" Tbg. set @ 12,910'

TD 13,103'

Drawn to



CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
DALLAS, TEXAS

March 6, 1959

REPLY TO  
P. O. BOX 4337  
MIDLAND, TEXAS

Santiago Oil & Gas, Inc.  
P. O. Box 1205  
Midland, Texas

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
<i>Santiago</i>	EXHIBIT NO. <u>5</u>
CASE NO.	<u>1612</u>

Attention: Mr. Leland Redline

Subject: Gas-Liquid Ratio Measurement  
New Mexico State No. 1-30 Well  
Wildcat (Bagley Area)  
Lea County, New Mexico

Gentlemen:

On February 24, 1959 thru March 3, 1959, gas-liquid ratio measurements were made in subject well and the results are presented to you herein.

The well was opened to flow thru an xx31.5 positive choke bean into the production system. The system consisted of a two pass heater operating at an average temperature of 140°F, a high pressure spherical separator operating at an average pressure and temperature of 700 psig and 90°F, a low pressure spherical separator at 50 psig and 67°F and a 1000 BBL. stock tank at atmospheric pressure and 54°F.

A stabilized ratio of high pressure gas to stock tank liquid was obtained throughout the last 48 hours of testing. The rates were 28.46 BBLs. stock tank liquid and 5948 MSCF gas or a ratio of 20,900 cubic feet of gas per barrel of stock tank liquid for the 24 hour period from 8:00 A. M. March 1, 1959 to 8:00 A. M. March 2, 1959. For the period from 8:00 A. M. March 2, to 8:00 A. M. March 3, 1959, the rates were 25.07 BBLs. stock tank liquid and 5252 MSCF gas for a ratio of 20,950 cubic feet per barrel of stock tank liquid.

Separator gas and liquid samples were collected the afternoon of March 1, 1959 and transmitted to our Reservoir Fluid laboratories in Dallas, Texas, for analysis.

It was a pleasure to make these measurements for you. When field testing and the laboratory study is completed, formal reports will be issued.

Very truly yours,

Core Laboratories, Inc.  
Reservoir Fluid Division

*P. L. Moses*  
P. L. Moses  
Operations Supervisor

REC'D MAR 9 1959

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Date

3/11/59

CASE NO.

1612

HEARING DATE

9am 3/11/59

DSN @ SF

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

Enter an order approving the dual completion as requested. The mechanics are OK and there is nothing indicated which should preclude granting the dual.

Refrain from using language which might be construed as defining or classifying the Devonian zone. This may or may not be properly called a gas reservoir or gas distillate reservoir. Suggest saying that the dual is for the production of oil from the Pennsylvanian and gas and liquid hydrocarbons from the Devonian.

Staff Member

*San Juan*  
Examiner

DOCKET: EXAMINER HEARING MARCH 11, 1959

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

The following cases will be heard before Daniel S. Nutter, Examiner

CASE 1610: Application of Wood River Oil & Refining Company, Inc., for an order authorizing a pilot water flood project, for capacity allowables for wells in said project, and for approval of five unorthodox locations. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Rhodes Pool in Lea County, New Mexico. Applicant proposes to inject water into the Lower Yates formation through six wells located in Section 35, Township 26 South, Range 37 East. Applicant also seeks approval of unorthodox locations for five of its proposed injection wells. Applicant further seeks capacity allowables for wells within the project.

CASE 1611: Application of Texas Pacific Coal & Oil Company for three non-standard gas proration units. Applicant, in the above-styled cause, seeks an order establishing the following non-standard gas proration units in the Jalmat Gas Pool, Lea County, New Mexico.

(1) A 320-acre non-standard gas proration unit consisting of the SW/4 of Section 21 and the SE/4 of Section 20, both in Township 23 South, Range 36 East, to be dedicated to applicant's State "A" a/c-1 Well No. 2 located in the NW/4 SW/4 of said Section 21;

(2) A 240-acre non-standard gas proration unit consisting of the W/2 NW/4 of said Section 21 and the NE/4 of said Section 20 to be dedicated to applicant's State "A" a/c-1 Well No. 3 located in the SW/4 NW/4 of said Section 21;

(3) An 80-acre non-standard gas proration unit consisting of the E/2 NW/4 of said Section 21 to be dedicated to applicant's State "A" a/c-1 Wells 4 and 6 located respectively in the NE/4 NW/4 and the SE/4 NW/4 of said Section 21.

CASE 1612: Application of Santiago Oil & Gas Company for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State No. 1-30 Well located 660 feet from the North line and 1980 feet from the East line of Section 30, Township 12 South, Range 34 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Upper-Pennsylvanian oil pool and the production of gas from an undesignated Devonian gas pool through parallel string of 2" tubing.

CASE 1613: Application of British American Oil Producing Company for an unorthodox gas well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox gas well location in an undesignated Dakota gas pool for its Fullerton Well No. 5, located 660 feet from the North line and 1980 feet from the East line of Section 15, Township 27 North, Range 11 West, San Juan County, New Mexico.

CASE 1614: Application of Texas Consolidated Oils, Inc., for an order authorizing a pilot water flood project in the Square Lake Pool in Eddy County, New Mexico, and for capacity allowables for said project. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Square Lake Pool in Eddy County, New Mexico. Applicant proposes to inject water into the Grayburg and San Andres formations through four wells located in Section 34, Township 16 South, Range 30 East. Applicant further seeks capacity allowables for nine wells in said Section 34.

CASE 1294: Application of Ambassador Oil Corporation for capacity allowables for three wells in a water flood project. Applicant, in the above-styled cause, seeks an order authorizing capacity allowables for the following described wells situated in the project area of its North Caprock Queen water flood project No. 2 in the Caprock-Queen Pool in Lea and Chaves Counties, New Mexico.

Well No. 18-2, NE/4 SE/4, Section 12, Township 13 South, Range 31 East;

Well No. 19-1, SW/4 NW/4, Section 7, Township 13, South, Range 32 East;

Well No. 22-1, SW/4 SE/4, Section 12, Township 13 South, Range 31 East.

**OIL CONSERVATION COMMISSION**

P. O. BOX 871

**SANTA FE, NEW MEXICO**

March 19, 1959

Mr. S. B. Christy  
Hervey, Dow & Hinkle  
P.O. Box 547  
Roswell, New Mexico

Dear Mr. Christy:

On behalf of your client, Santiago Oil & Gas Company, we enclose two copies of Order R-1353 issued March 18, 1959, by the Oil Conservation Commission in Case 1612, which was heard on March 11th before an examiner.

Very truly yours,

A. L. Porter, Jr.  
Secretary - Director

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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. 1612  
Order No. E-1353

APPLICATION OF SANTIAGO OIL & GAS  
COMPANY FOR AN ORDER AUTHORIZING  
AN OIL-GAS DUAL COMPLETION IN AN  
UNDESIGNATED UPPER-PENNSYLVANIAN  
OIL POOL AND IN AN UNDESIGNATED  
DEVONIAN POOL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 11, 1959, 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 18<sup>th</sup> day of March, 1959, 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, Santiago Oil & Gas Company, is the owner and operator of the State No. 1-30 Well, located 660 feet from the North line and 1980 feet from the East line of Section 30, Township 12 South, Range 34 East, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to dually complete the said State No. 1-30 Well in such a manner as to permit the production of oil from an undesignated Upper-Pennsylvanian oil pool and the production of gas and liquid hydrocarbons from an undesignated Devonian pool through parallel strings of two-inch tubing.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will not cause waste nor impair correlative rights.

-2-

Case No. 1612  
Order No. R-1353

IT IS THEREFORE ORDERED:

That the applicant, Santiago Oil & Gas Company, be and the same is hereby authorized to dually complete its State No. 1-30 Well, located 660 feet from the North line and 1980 feet from the East line of Section 30, Township 12 South, Range 34 East, NMPL, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Upper-Pennsylvanian oil pool and the production of gas and liquid hydrocarbons from an undesignated Devonian pool through parallel strings of two-inch tubing.

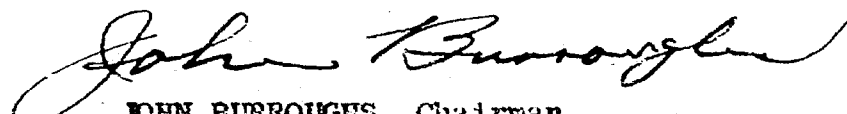
PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Pennsylvanian zone.


IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

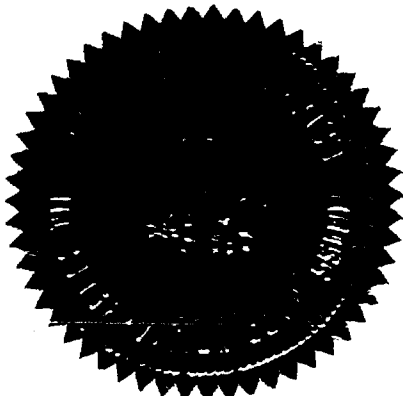
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
JOHN BURROUGHS, Chairman

  
MURRAY E. MORGAN, Member

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



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BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE NO. 1612

TRANSCRIPT OF HEARING

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

March 11, 1959



BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

IN THE MATTER OF:

Application of Santiago Oil & Gas Company  
for an oil-gas dual completion. Applicant,  
in the above-styled cause, seeks an order  
authorizing the dual completion of its  
State No. 1-30 Well located 660 feet from  
the North line and 1980 feet from the East  
line of Section 30, Township 12 South,  
Range 34 East, Lea County, New Mexico, in  
such a manner as to permit the production  
of oil from an undesignated Upper-Pennsylvanian  
oil pool and the production of gas from an  
undesignated Devonian gas pool through parallel  
string of 2 inch tubing.

CASE  
NO.  
1612

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: We will take next Case 1612.

MR. PAYNE: Case 1612. Application of Santiago Oil  
& Gas Company for an oil-gas dual completion.

MR. CHRISTY: Sim Christy of Hervey, Dow and Hinkle  
for the Applicant, Santiago Oil & Gas Company. As will be  
developed in the testimony, Pan American, Texas Pacific Coal  
and Iron, Phillips, and Amerada are the offset owners of the  
land involved in this application, and Mr. Henson is the nearest

offset person. We have, on February 11, 1959, mailed true and correct copies of the application to these offset operators, and we offer in evidence the registered return receipts in connection with that mailing.

MR. NUTTER: Do you want to label those as an exhibit, Mr. Christy?

MR. CHRISTY: Let's make them Exhibit 4.

MR. NUTTER: These registered return receipts have been marked as Santiago's Exhibit 4.

MR. CHRISTY: Thank you.

MR. NUTTER: Is there objection to the introduction of the registered return receipts in this case? If not, the receipts will be received.

MR. CHRISTY: We have one witness for the Applicant.

(Witness sworn.)

D. BACUM

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

DIRECT EXAMINATION

BY: MR. CHRISTY:

Q Would you please state your name, address, and occupation?

A D. Bacum, 3001 East Over Drive, Odessa, Texas.

Q By whom are you employed and in what capacity?

A For Santiago Oil and Gas as vice president and

manager of operations.

Q Are you familiar with the application in Case No. 1612 filed in this connection and the matters therein contained?

A Yes, sir.

Q Now, have you previously testified before the New Mexico Oil Conservation Commission?

A No, sir.

Q As an expert in matters akin to the subject of this application?

A No, sir, I have not.

Q Now, would you please briefly tell the Examiner your experience and your work and your familiarity with dual completion matters?

A I have had twenty-five years experience, mostly with Humble Oil and Refining Company, as toolpusher, assistant and district superintendent in charge of drilling and production in various localities and districts and was associated with Mr. House before he passed away, worked with him for quite some time, and in the West Texas area we did dual completions of the deeper wells in the Empire Field located in Kimble County, and also, since I have been with Santiago, several wells in Ector County.

Q Have you personally managed and supervised dual completion of a number of wells in the last three or four years?

A Some fourteen wells.

MR. CHRISTY: Does the Commission have any questions concerning the qualifications of the witness to testify?

MR. NUTTER: No, please proceed.

Q Will you tell us what is sought by this application, Mr. Bacum?

A To obtain approval to produce oil from the Pennsylvanian and gas from the Devonian in Santiago Well No. 1-30, and that's located 660 feet from the North line and 1980 from the East line of Section 30, Township 12 West, Range 34 East in Lea County, New Mexico.

Q That is, to obtain this production by dual completion methods?

A Yes, sir, that's correct.

Q Now, do you consider that the facts stated in this application are true and correct?

A Yes, sir.

Q Now, was the well that is the subject of this application, was it drilled under your supervision?

A It was.

Q Have you conducted tests to determine whether or not the well is susceptible to production of oil or gas in one or more zones?

A Yes, sir.

Q And what are the results of those tests?

A Drill stem tests were taken of both the Pennsylvanian

and the Devonian, and it was found that it was susceptible to oil out of the Pennsylvanian and gas out of the Devonian.

Q Now, have you taken completion tests on this well?

A No, sir.

Q Would you explain to us the manner in which you attempted to make completions of these two zones that you spoke of?

A After drilling the well, or starting the well, if you will notice Exhibit 2--

Q That's the diagrammatic sketch?

A That's the diagrammatic sketch.

Q And it has been marked as Santiago's Exhibit 2 in this case?

A It has been marked as Santiago's Exhibit 2 in this case.

Q Continue, if you please.

A If you will notice the pipe, which is 9-5/8 inch, was cemented at 4130, circulated. The hole was drilled 13,103 feet, which the 7 inch casing was set and cemented at 13,102. Now, we used 750 sacks of 4 per cent jell in the cement, and after the cement set for twelve hours, ran a temperature survey, found the top of the cement back at 8200. After 36 hours we tested the casing with 3,000 pounds for two and a half hours, and we found no drawdown at all.

Q Is this pressure continuous?

A Continuous.

Q All right, go ahead.

A Then we perforated the Devonian formation from 12,899 to 12,924; also the Pennsylvanian from 10,218 to 10,236; from 10,250 to 10,256, then a Baker Model "K" Production Packer was set on a wireline at 12,875 feet.

Q Is that a permanent type of packer?

A Permanent type of packer, and then tubing was ran for the Devonian and was set at 12,910 feet through the Baker Production Packer, with the dual string Baker Production Packer set at 10,190 feet, then the Pennsylvanian 2 inch tubing string was ran and set at 10,225. After cementing these strings, the Devonian was acid treated through the bottom perforations using 10,000 gallons of 15 per cent acid. It was swabbed back to flow and the upper perforation was treated through the perforations, with 3,000 gallons of 15 per cent acid, and it was swabbed to flow, and on a four hour test of the Pennsylvanian, through an 18/64 inch choke, we recovered 48 barrels of 45 gravity pipeline oil, or for a calculated 24-hour test of 288 barrels, with a ratio of 475 to 1; on a 24-hour test of the Devonian, through 20/64 inch choke, producing at the rate of nine and a half million MCF per day, with 5/4 barrels of 64 degree gravity distillate per one million cubic feet of gas.

Q Now, in your opinion would this proposed method of dual completion tend to protect correlative rights?

A Yes, sir.

Q Now, have the tests which you mentioned indicated that the well is susceptible to producing oil and gas in more than one pay zone?

A Yes, sir.

Q Now, let me refer you to Exhibit 1 and ask you if you will please identify and explain it.

A Exhibit 1 is a plat showing the location of all wells on the applicant's lease, and all offset wells on the offset leases, and the names and addresses of offset operators and all the leases offsetting the leases.

Q I believe you previously explained Exhibit 2, and I noticed that your application indicates that you propose to produce oil from the Upper Pennsylvanian formation at the two zones that you testified about, as well as gas from the Devonian formation in the zone you testified, is that correct?

A That's right.

Q Now, you have demonstrated this Devonian production as distillate in the application. Will you please explain to the Commission the composition of this hydrocarbon and why you previously mentioned it was gas and then the application mentioned it was distillate?

A It is definitely distillate. As I stated, it is 62 degree gravity. This was determined by running a pressure bomb inside of the tubing to approximately 12,900 feet. The tubing

was found dry of fluid, then the well was flowed on a small choke at the rate of 25,945 MCF of gas for a ratio of 20,900 cubic feet of gas per barrel of stock tank fluid over a 24-hour period, and this fluid was gas distillate, as we have a sample to show you.

Q We don't propose to offer this in evidence, but we thought the Examiner and staff might be interested in finding out exactly what the fluid looks like.

MR. NUTTER: That is untreated fluid?

A That is untreated fluid right from the separator.

Q (By Mr. Christy) So as I understand you, the hole does not have liquid in it, it is in a gaseous state until it reaches the choke to the surface?

A That is correct.

Q Now, have you recently had Core Laboratories make a study of this fluid?

A Yes, Core Laboratories ran this test for us, and they are in the process of finishing the test at this time, but we do have a letter from Core Laboratories stating just what I read and gave you a moment ago.

Q I believe that has been marked Santiago's Exhibit 5?

A That is correct.

Q Now, these two reservoirs we have spoken of, they are separated in the well behind the pipe?



A Yes, sir.

Q And in your opinion, do you feel that there is a possibility of commingulation of these fluids between the upper Pennsylvanian and the Devonian formation?

A No, sir.

Q How about the fresh water zones are they protected?

A Yes, sir.

Q In your opinion, is the proposed dual completion installation in accordance with good engineering practices and principles?

A Yes, sir.

Q Is this type of dual completion one customarily used in the Lea County area?

A It is.

Q Has this type of dual completion operation proven successful in actual field tests?

A Yes, sir.

Q Now, let's turn to the surface equipment, will it be so designed and installed that the reservoirs will be separately produced and their fluids separately tanked and gauged?

A Yes, sir, it surely will.

Q Will you elaborate on that a little bit from Exhibit 2, extending it to the surface, please.

A Turning back to Exhibit 2, you have the two strings of tubing coming to the top of the surface, and after it reaches

the top of the surface, you have two wing valves, which is separating the two zones, and two chokes with two wings going in opposite directions, the two flow lines going to two separate tank batteries.

Q Now, is this dual completion technique generally accepted in the oil industry and by other regulatory bodies?

A Yes, sir.

Q How about corrosion, do you feel that has been a problem?

A No, sir.

Q Do you have any paraffin problems?

A To a certain extent. Out of the Pennsylvanian formation we do have some paraffin. Now, this paraffin has been cut by the wireline method, but we anticipate installing what is better known as a plunger that will drop every so often, and when the well comes back on and kicks on, it will come to the top and cut the paraffin, therefore keeping it clean as it flows.

Q That cleaning out will be more often, about every four to six hours?

A I would say four to six hours.

Q Do you feel that that type of technique will maintain a satisfactory paraffin control in this well?

A Yes, sir.

Q Now, does this proposed dual completion technique possess any possibility for leakage or commingulation of the

two reservoirs than any other accepted method?

A No, sir.

Q Now, if the application is granted, does Santiago understand that it may be necessary to take packer leakage tests and otherwise comply with various rulings of the Commission?

A Yes, sir, and Santiago also agrees to comply with all the rules in that respect, and also Rule No. 112-A-5. That takes in the pressure test and circulating test, the filing of reports, reserve pressures, packer setting affidavits, and we have, in Exhibit --

Q Now, I refer you to Exhibit 2, that is a diagrammatic sketch of the actual completion installation, is that correct, sir?

A That is true.

Q Now, under this proposed method of dualling, is it possible to make bottom hole pressure tests on each separate zone, and if so, will you please explain?

A We do that by running a bottom hole pressure bomb inside the two inch string to a depth of 12,900 feet to the Devonian, and inside the two inch tubing string to 10220 for the Pennsylvanian, and recording each zone pressure by chart method.

Q Do you have initial bottom hole pressures on this well from the two zones?

A Yes, sir. The bottom hole pressure from the Devonian was 4930 and the Pennsylvanian was approximately 3800.

Q Are those the latest figures you have available?

A Those are the latest ones we have.

Q Now, turning to the economics of the matter, what is the difference in cost of dual completing this well or drilling a twin well to the Pennsylvanian?

A Approximately \$235,000.

Q That is what it would cost to drill a Pennsylvanian well?

A To drill a Pennsylvanian well, and I believe it would cost about \$75,000 to dual complete it.

Q So that there is a saving of approximately \$165,000?

A That is correct.

Q Now, sir, do you have an electric log on this well?

A We do, and --

Q Has that been marked as Santiago's Exhibit 3?

A Yes, sir.

Q Now, were Exhibits 1 and 2 prepared by you or under your direction or supervision?

A Yes.

MR. CHRISTY: Santiago offers in evidence Exhibits 1, 2, 3, and 5. At this time we offer all of the Exhibits, except 4, and that has previously been admitted.

MR. NUTTER: Without objection, Exhibits 1, 2, 3, and 5 will be admitted in evidence.

Q (By Mr. Christy) Mr. Bacum, is there anything that

I failed to ask you that you feel might be of interest to the Commission in consideration of this application?

A No, sir, I do not.

MR. CHRISTY: We have no further questions of this witness.

MR. NUTTER: Any questions of Mr. Bacum?

MR. FISCHER: Yes.

MR. NUTTER: Mr. Fischer.

CROSS EXAMINATION

BY: MR. FISCHER:

Q What type of tubing is that that you were putting in this well, upset --

A Upset two inch, 80 on the long string and flush joint Hydril on the upper string.

Q I don't recall if you said this, was this packer, this lower packer at 12,875, pressure tested?

A Yes, sir.

Q And found to be in good shape?

A Yes, sir.

MR. FISCHER: That's all.

MR. PORTER: I have a question. Is this a wildcat well?

A Yes, sir.

MR. PORTER: Both zones?

A Yes, sir.

MR. PORTER: Thank you.

QUESTIONS BY MR. NUTTER:

Q Mr. Bacum, what did you say the depth of the 7 inch casing was?

A The 7 inch casing is set at 13,102 feet.

Q This exhibit shows the casing shoe at 13,085. Would you correct that then, if that is in error?

A Yes, sir, that is in error.

MR. CHRISTY: So that Exhibit 2, you are changing 13,085 to 13,102?

A Yes.

MR. FISCHER: I have one more question, Mr. Examiner.

MR. NUTTER: Mr. Fischer.

QUESTIONS BY MR. FISCHER:

Q Mr. Bacum, what will happen to the paraffin that's cut, coming out of this plunger?

A It will flow on with the fluid. We are flowing this well, or we will flow it intermittently, you can set it to flow over a period, and when it comes back, it will flow through the choke into the battery and deposit the oil and the oil will be sold.

Q Also, Mr. Bacum, I believe you stated that when you took your potential test on the Devonian, that the potential was nine and a half million MCF. That was nine and a half million cubic feet, is that correct?

A That's right.

Q Now, with reference to this letter from Core Laboratories they stated they have taken 48 hours of test, being from 8:00 a.m. March the 1st, to 8:00 a.m. March the 2nd and March the 2nd, 8:00 a.m. to March 3rd. Has that well been produced any except this one 48-hour period?

A Yes, sir, it has during one period, and what they were trying to do, they were trying to reach a stablizedpoint, and this test is for reservoir studies.

Q Do you think that the 48-hour flow that they had there, did that result in a stablized condition in the well?

A Yes, sir.

Q So that your potential then, for 48 hours will be in the neighborhood of twenty-five barrels of fluid and approximately five to six million cubic feet of gas?

A At the rate they were flowing it, yes.

Q At the rate they were flowing it?

A Yes, sir.

Q And with a stablized GOR in the range of 20,900?

A Yes.

Q You stated the gravity was 62 degrees in the Devonian?

A Yes, sir.

MR. FISCHER: That's all.

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

MR. FISCHER: I have one other question.

QUESTIONS BY MR. FISCHER:

Q Is it your opinion Mr. Bacum that the Devonian is a gas pool, condensate pool?

A Yes, sir.

Q Or a gas --

A It is gas, and you have no condensate or anything until it hits the surface and through the choke.

MR. FISCHER: That's all.

MR. NUTTER: To your knowledge, has the Oil Conservation Commission to date advertised any case for the creation of a pool for either of these zones?

A No, sir.

MR. NUTTER: They are still undesignated.

MR. CHRISTY: That is correct.

MR. NUTTER: Any further questions? If not, Mr. Bacum may be excused from the stand.

MR. CHRISTY: That is all for the applicant in this case.

MR. NUTTER: Does anyone have anything further they wish to offer in Case 1612? We will take the case under advisement and take a five minute break.



STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO )

SS

I, Joseph A. Trujillo, 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 Stenotype and that the same was reduced to typewritten transcript by me and contains a true and correct record of said hearing, to the best of my knowledge, skill and ability.

DATED this 19th day of March, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

*Joseph A. Trujillo*  
NOTARY PUBLIC

My Commission Expires:

October 5, 1960

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 1612  
heard by me on 3-11, 1959.  
*Amador M. Martinez*, Examiner  
New Mexico Oil Conservation Commission

*Delma Baucum*  
**SANTIAGO OIL & GAS COMPANY**

BOX 1205 MU 2-7971

2205 WILCO BUILDING

MIDLAND, TEXAS

February 10, 1959

*Case 1612*

*Hearing*

New Mexico Oil Conservation Commission

P. O. Box 871

Santa Fe, New Mexico

Re: Dual Completion Application

Santiago Oil & Gas Company

State No. 1-30

Sec. 30 T12S R34E, Lea County

Gentlemen:

Attached are three copies of a dual completion application for the Santiago Oil & Gas Company's State 1-30 wildcat well, located 660' from the North line and 1980' from the East line of Section 30 Township 12 South Range 34 East, NMPM, Lea County, New Mexico.

Copies of this letter and application, along with the plats showing the mechanical installation and location of other wells are being forwarded by registered letter to the offset operators listed below.

We shall appreciate consideration of this application for a hearing.

Yours very truly,

*Delma Baucum*

Delma Baucum

SANTIAGO OIL & GAS COMPANY

DB/hs

cc: State Land Office

Fan American Petroleum Corporation, Lubbock, Texas

Texas Pacific Coal & Oil Co., Midland, Texas

Phillips Petroleum Company, Midland, Texas

Amerada Petroleum Corporation, Midland, Texas

E. A. Hanson, Roswell, New Mexico

*Docket Numbered  
8-25-59  
BP*

# NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <u>Wildcat</u>		County <u>Lea</u>	Date <u>2/10/59</u>
Operator <u>Santiago Oil &amp; Gas Company</u>		Lease <u>State</u>	Well No. <u>1-30</u>
Location of Well	Unit <u>E</u>	Section <u>30</u>	Township <u>12 South</u>
			Range <u>34 East</u>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Upper Penn	Devonian
b. Top and Bottom of Pay Section (Perforations)	10,218-10,236; 10,250-10,258	12,399-12,924
c. Type of production (Oil or Gas)	Oil	Gas Distillate
d. Method of Production (Flowing or Artificial Lift)	Fl	Fl

4. The following are attached. (Please mark YES or NO)

- X a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- X b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- \_\_\_\_\_ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. \* Operators being sent copies by registered mail
- X d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Pan American Petroleum Corporation	Box 268 Lubbock, Texas
Texas Pacific Coal and Oil Co.	Box 4067, Midland, Texas
Phillips Petroleum Company	Box 791, Midland, Texas
Amerada Petroleum Corporation	Box 312, Midland, Texas
E. A. Hanson	Box 852, Roswell, New Mexico

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_ . If answer is yes, give date of such notification 2/10/59 .

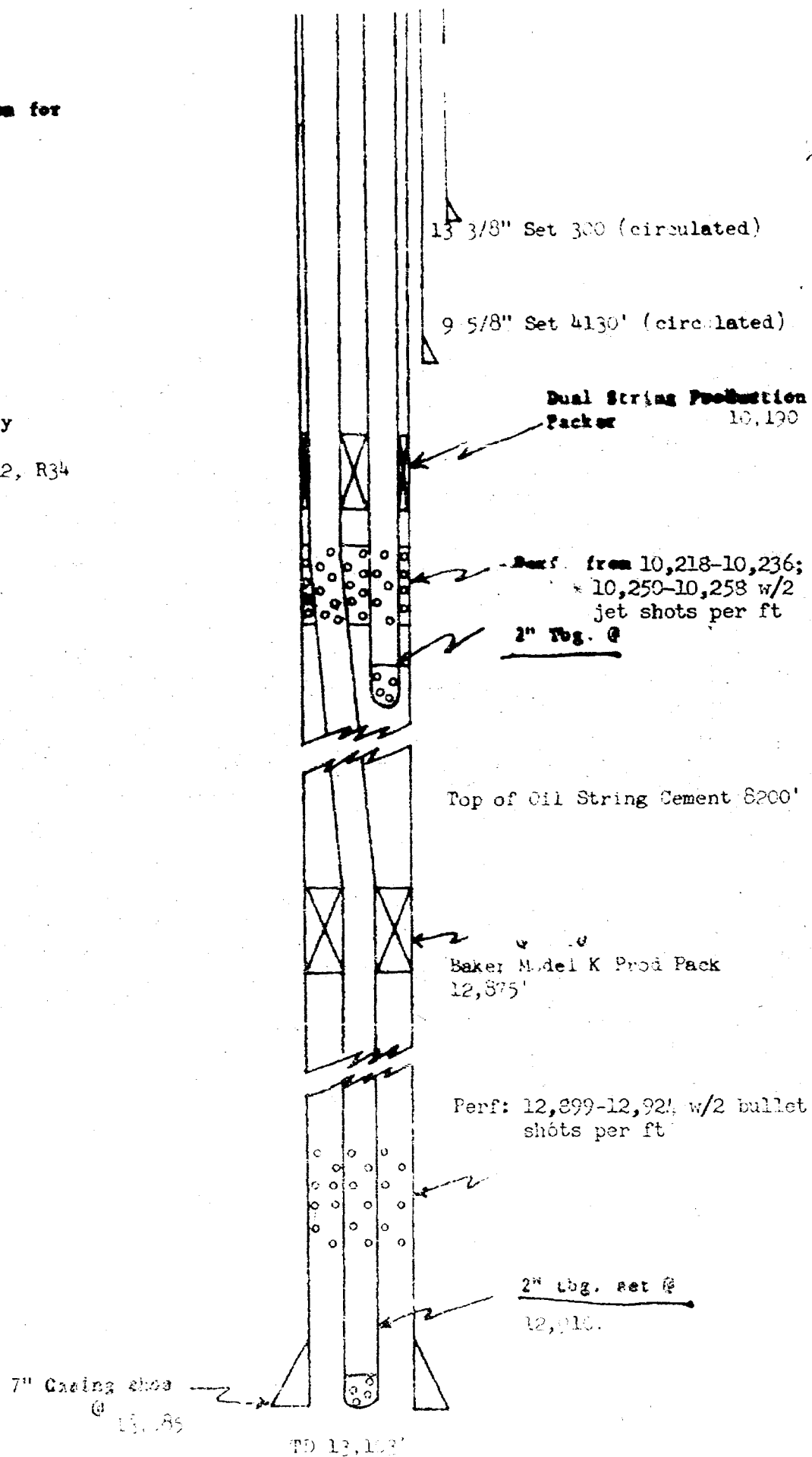
CERTIFICATE: I, the undersigned, state that I am the Production Manager of the Santiago Oil & Gas Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Delmar Bancroft  
Signature

- \* 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 dual completion will result in an unorthodox well location and/or a non-standard 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.

**Details of Dual Completion for**

Santiago Oil & Gas Company  
 State 1-30 Well No. 1  
 Unit B, Section 30, Tsp 12, R34  
 Wildcat  
 Lea County, New Mexico



Not drawn to scale



**NEW MEXICO OIL CONSERVATION COMMISSION**  
SANTA FE, NEW MEXICO

*Case 1612* 7-3-58

**APPLICATION FOR DUAL COMPLETION**

Field Name <b>Wildcat</b>		County <b>Lea</b>		Date <b>2/10/59</b>
Operator <b>Santiago Oil &amp; Gas Company</b>		Lease <b>State</b>		Well No. <b>1-30</b>
Location of Well <b>B</b>	Unit <b>30</b>	Section <b>12 South</b>	Range <b>34 East</b>	

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Upper Perm</b>	<b>Devonian</b>
b. Top and Bottom of Pay Section (Perforations)	<b>10,215-10,236; 10,250-10,258</b>	<b>12,899-12,904</b>
c. Type of production (Oil or Gas)	<b>Oil</b>	<b>Gas Matillan</b>
d. Method of Production (Flowing or Artificial Lift)	<b>FL</b>	<b>FL</b>

4. The following are attached. (Please mark YES or NO)

- ☒ a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- ☒ b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- ☐ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. \* **Operators being sent copies by registered mail**
- ☒ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

<b>Pan American Petroleum Corporation</b>	<b>Box 268 Lubbock, Texas</b>
<b>Texas Pacific Coal and Oil Co.</b>	<b>Box 4067, Midland, Texas</b>
<b>Phillips Petroleum Company</b>	<b>Box 791, Midland, Texas</b>
<b>Amoco Petroleum Corporation</b>	<b>Box 312, Midland, Texas</b>
<b>E. A. Hanson</b>	<b>Box 852, Roswell, New Mexico</b>

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ If answer is yes, give date of such notification **2/10/59**

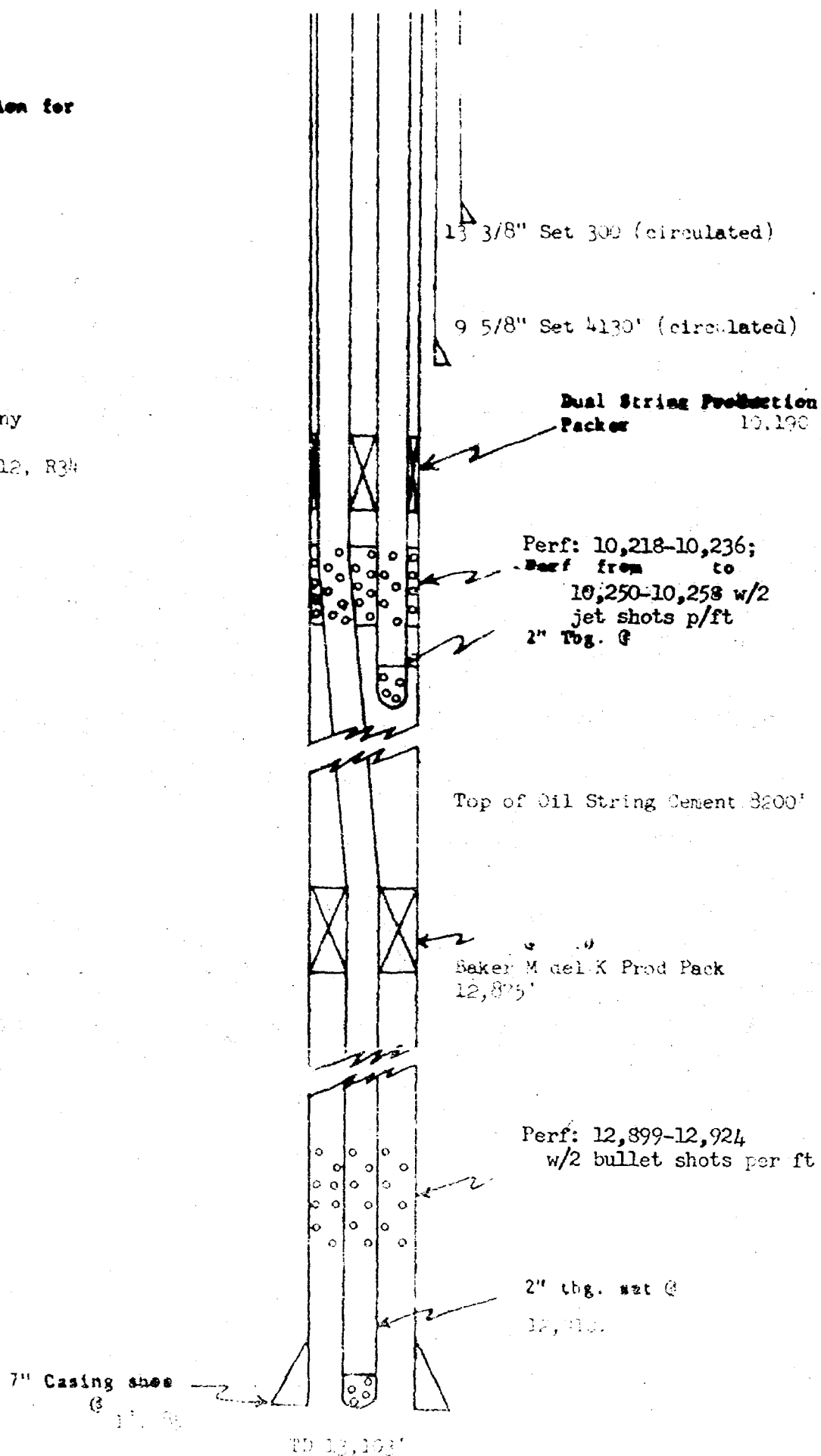
CERTIFICATE: I, the undersigned, state that I am the **Production Manager** of the **Santiago Oil & Gas Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*Delmar Barcus*  
Signature

- \* 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 dual completion will result in an unorthodox well location and/or a non-standard 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.

# Details of Well Completion for

Santiago Oil & Gas Company  
 State 1-30 Well No. 1  
 Unit B, Section 30, Tsp 12, R34  
 Wildcat  
 Lea County, New Mexico



Not drawn to scale

Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034
Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034
Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034	Amoroso 8-10-34 E-1034
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Section 20 T123 R34E

Santiago Oil & Gas Company  
State No. 1-3  
660/1 & 1900/1 To be Dred  
Offset in Section 19:  
Phillips Pet Co. Signal No. 1  
1/10/3 & 1900/1 Drig.

W. G. McCORMICK and ASSOCIATES  
STATE 1-30 LEASES  
LEA COUNTY, NEW MEXICO  
"EXHIBIT"



<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>	<p>Amerado B-10612 E-5872</p> <p>State</p>
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<p>Amerado B-10612 E-5</p>											



*House*

**#1-INSTRUCTIONS TO DELIVERING EMPLOYEE**

☐ Deliver ONLY to address ☐ Show address where delivered  
(Additional charges required for these services)

**RETURN RECEIPT**

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

*Amada*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

*[Signature]*

DATE DELIVERED

ADDRESS WHERE DELIVERED (only if requested in item #1)

*P. P.*

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☐ Deliver ONLY to address ☐ Show address where delivered  
(Additional charges required for these services)

**RETURN RECEIPT**

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SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

*Trans Pacific Oil & Oil Co.*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

*Ray Beck*

DATE DELIVERED

ADDRESS WHERE DELIVERED (only if requested in item #1)

**#1-INSTRUCTIONS TO DELIVERING EMPLOYEE**

☐ Deliver ONLY to address ☐ Show address where delivered  
(Additional charges required for these services)

**RETURN RECEIPT**

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

*[Signature]*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

*[Signature]*

DATE DELIVERED

ADDRESS WHERE DELIVERED (only if requested in item #1)

*Am*

**#1-INSTRUCTIONS TO DELIVERING EMPLOYEE**

☐ Deliver ONLY to address ☐ Show address where delivered  
(Additional charges required for these services)

**RETURN RECEIPT**

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

*Am. American's Pet Co*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

*[Signature]*

DATE DELIVERED

ADDRESS WHERE DELIVERED (only if requested in item #1)

I Application

2. Submit cards

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CITY, ZONE AND STATE \_\_\_\_\_

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POST OFFICE DEPARTMENT  
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At . . . . . O'CLOCK

His Number Is . . . . .

Call Received By . . . . .

Remarks:

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
Savings EXHIBIT NO. 4  
CASE NO. 1612

POB Form 3811 Jan. 1928

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