

1612

Application, Transcript, Small Exhibits, Etc.

Cares 16-12

BOX 1205 MU 2-7971

BOX 1205 MU 2-7971 2205 WILCO BUILDING MIDLAND, TEXAS February 23, 1959

and the second sec 1950 FLW R. A. M. 10 13

Commissioner of Public Lands Santa Fe, New Mexico

Attention: Oil & Gas Division

Re: Status of Operations Report Period January 7, 1959 thru February 18, 1959, State Lease E 2109, Santiago Oil & Gas Company, State Lease Well No. 1-30.

Gentlemen:

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During the period January 7, 1959 through February 18, 1959, the above referenced well was drilled to a total depth of 13,103'. This well was completed and potential test taken on February 18, 1959. During this time, there was no suspension of operations.

We are enclosing Request for Allowable, Certificate of Compliance and Authorization to Transport Oil and Natural Gas, Packer Leakage Test, Packer Setting Affidayit (Dual Completions), Application for Dual Completion and Sketch of Packer Set.

Should this information not prove sufficient, please advise. Otherwise, we will consider this to be our final report.

Yours very truly,

SANTIAGO OIL & GAS COMPANY R. L. Redline, Jr.

RLR:en Encls. $\frac{1}{2} M_{\rm e} (M_{\rm e}^{\rm eff}) = \frac{1}{2} (1 + 1)^2 M_{\rm e}^{\rm eff} + \frac{1}{2} (1 + 1)^2 M_{\rm e}^{\rm$

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Well No. 1-90 Unit Lette	r B S 30 T	12 R 34 Pool	internet (record, 1v.
County	Kind of Lease	State, Fe d. or Pa	itented)
If well produces oil or condens	sate, give locati	on of tanks:Unit	8 S 30 T 12 R 34
Authorized Transporter of Oil	or Condensate_		
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condenaate or distillate.				
NOTE: Recording gauge pressure charts, test phases of the test shall be submitted with th		and a graj	ohic dericti	on of all
AFFIDAVIT:				
I FERERY CLAIPER that all condition	ns prescrib	ed by Off	Conservation	Commission

Taily (Correct Making Test) For Join Lest Inginvering (Correct Making Test) (Representative

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

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 At least 24 margin of the control of the control of the control chall notify the District control of the exect time said test is to be present of

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- 2. The packer leakage fert is a substantial state of the completion shut-in. Both sides of the temperature of the state of the completion shut-in. Complete stabilization of the second state of the state of the total of the after- this minimum of 2 hours house rolt low in the charts of the pressure recorder and also much appear on the data is to
- 3. For Flow Test No. 1, one allow for the shall on the stall on the stall and the state state in the state of the state of the state of the 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 we because used have again become stabilized and for a minimum of 2 hours thereafter.
- 5. Flow Test No. 2 shall be use formed with the crewiously shuthin eider of the dual completion flowing and with the finaling like of the completion used in test number 1 remaining shuthin. This test could be conducted exactly as cutlined under Flow Test No. 1, and must be performed ever 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 parker.
- 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.
- 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 durlicate 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.

in second

- b. the test data-showt (2), or copies thereof, required under the terms of t
- a graph depositing the increasing and their changes, for both side of the conjection over the entire text.
- 10. This packer leakage test orbits a confirmentation dual of subtice of any new wells reapproved by the Complete of the test that above on the book were surface the annual GOP test for the second of the second of the test of the may also request the second of the second of the test feel that a new test is detirable.

NEW MEXICO CONSULTION COMMISSION 5 (5-1-56 SAVER FE, NEW MEXICO

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PACKEL-SETTING AFF	TIVACI	
(Dual Completio		
STATE OF Her Hadles		
County of 100		
Balant Bearing fir	st duly sworn .ccc	ording 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 Suntlage S	al & the Gro	in the capacity
ofand as such	is its authorized	agent.
That on Fine 1, 19 97, h		
(Make and Type of Facker)	(Operato	
••		
(lease)	Well No.	, located in Unit
Letter, Section, Townshi	p_12, Range	NAPH,
County, New Merico.		
That said packer was set at a sub	surface depth of	12.575 feet.
	• -	
said depth measurement having been furnishe	d by he backet	•
That the purpose of setting this annular space between the two strings of pi		
prevent the commingling, within the wall-bo	re; of fluids prod	luced from a stratum
below the packer with fluids produced from packer was properly set and that it did, wh	a stratum above th en set. effectivel	e packer. That this . v and absolutely
seal off the annular space between the two	strings of pipe wh	ere it was set in
such manner as that it prevented any moveme	nt of fluids acros	s the packer.
		1 & Sep Banyuny
	(Comp	ary)
	Telana B	Uniter and
	(its	Agent)
Subscribed and sworn to before me this the_	1912 de	y of parts u,
19_77	A.C.	j.
	Medine Para	<u>,</u>
	of	and for the County
My Commission Expires		
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NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

Field Name	Ce el 1	Les Dete 30009
Operator	Lease	Bell No.
	Reko	
Location Unit	Section Township	hange Sh Bash
and the second	in Commun. a branchine authorized the	deal completion of a well in these same pools or in the same
aones within one mile of the aubje		
	iastaace: Order No.	; Operator, Lenne, and Well Nut
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. The following facts are submitted:		
. The third and the submitted.	Upper Zone	Lower Zone
s. Name of reservoit	Change Paris	Arvylan
h. Top and Bottom of		
Pay Section	10,000-10,00%;20,000	
(Perforations)		
c. Type of production (Oil or Gas)	QL	Ges Sigtiliste
d. Method of Production		
(Flowing or Artificial Lift)	7	<u>n</u>
4. The following are attached. (Fles	se mark YES of NO)	
c. Vaivers consenting to a been furnished copies of d. Electrical log of the we thereon. (If such log is	the application." Quarthery hold Il or other acceptable log with tops and	erator, or in lieu thereof, evidence that said offset operators hav COAL couplety by registered and bottoms of producing zones and intervals of perforation indicate iled, it shall be submitted as provided by Rule 112-A.) with their correct mailing address.
Tenne Papillo Coni sui	011 Cm. 302 4007, 16	Sent, Sume
Phillips Puterslaus Com	ner YL, Ma	lani, 2006
Anaroda Poloslama Cory	neukton das 312, 21d	lend, Iumo
L. A. Lenten	Sont 652, Sage	mil, Bar Namios
5. Fere all operators listed in Item 5 of such cotification	above notified and f ished a copy of th	is application? YES
CERTIFICATE: 1, the undersigne	d, state that i am the	the Basklage OLL & Cas
fco	mpany), and that I am authorized by said	company to make this report; and that this report was prepared prrect and complete to the best of my knowledge.

Delma Barren

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 protect 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-atandard protection unit in either or both of the producing mores, site application for approval of the cost should be filed simultaneously with this application.

7-3-58







1959 FEB 20 AT 12 10

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SANTIAGO DIL AND GAS COMPANY

BOX 1205

MIDLAND, TEXAS

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Commissioner of Public Lands Santa Fe, New Mexico

Attention: Oil & Gas Division

Details of Deal Completion for Sentingo Oil & Ges Company State 1-30, Well No. 1 Unit B, Section 30, Tap 12, R34 Wildows Les County, New Mexico



6 13,085

Details of Dual Completion for Sentiago 011 & Gas Company State 1-30, Well No. 1 Unit B, Section 30, Tap 12, R34 Wildon't Les County, New Next co



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@ 13,085'



BANTIAGO DIL & GAS COMPANY

BOX 1205 MU 2-7971 2205 WILCO BUILDING MIDLAND, TEXAS

Names and addresses of Offset Operators

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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



CORE LABORATORIES. INC. Petroleum Reservour Engineering DALLAS. TEXAS

Manden ale av u

March 6, 1959

P. O. BOX XA 4337

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

Attention: Mr. Leland Redline

BEFORE EXAME VER MUTTER OIL CONSERVATION COMMISSION ERAN EXHIBIT NO. CASE NO.

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.

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 1, 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

Separator gas and liquid samples were collected the afternoon of March 1, 1959 and transmitted to our Reservoir Pluid laboratorics 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

REC'H MAR H 1959

P. L. Moses Operations Supervisor

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

CASE NO. 1612

Date______59

HEARING DATE 94m 3/11

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

There an order approving the dual completion as requested. The mechanics are OK and there is nothing indicated which should preclude granting the Anal. Refrain from using language which singht he construed as defining or classifying the Devoinan gone. This may et may not be properly colled a gas hereven signs distillate reservoir. August saying that the cheal is for the production of oil from the lunghisman and gas and triginal kydeocarlions from the Devoman " Xan Mulhe & Kauner

No. 8-59

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

- <u>CASE 1610:</u> 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 parall 1 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.

-2-Docket No. 8-59

- <u>CASE 1614:</u> 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.
- <u>CASE 1294:</u> Application of Ambassador Oil Corporation for capacity allowables for three wells in a water flood project. Applicant, in the abovestyled 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 F.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

bp Encls.

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 POR THE PURPOSE OF CONSIDERING:

> CASE NC. 1612 Order No. 8-1353

APPELICATION OF SANTIAGO OIL & GAS COMPANY FOR AN ORDER AUTHORIZING AN OIL-GAS DUAL COMPLETION IN AN UNDESIGNATED UPPER-PENNSYLVANIAN GIL 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.H. on March 11, 1959, at Santa Fe, New Mexico, before Daaiel 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 day of March, 1959, the Commission, a quorum being present, naving 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 bereby authorized to dually complete its State No. 1-30 Well, located 360 feet from the North line and 1980 feet from the East line of Section 30, Township 12 South, Hange 34 East, HEPM, Les 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 seen 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 BURROUGES, Chairman

Mango

HURRAY N. MORGAN, Member

1.98 . A. L. PORTER, Jr., Momber & Secretary



CLIP CONSERVATION CONSERVATION SANTA FO, MARIE ESTCO

IN THE FATTER OF:

CASE NO. 1012

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TRANSCRIPT OF HEARING

DEARNLEY - MEIER & ASSOCIATES GENERAL LAW REPORTERS ALBUQUERQUE L'EW MEXICO Phone Chapel 3-6691 PFEORE THE OTECTEMENTED CONTENTS COLLECTION CONTENTS COLLECTOR FE, ILSUE ECTOR

IN THE MARPER OF:

Application of Santiago Oil & Gus 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 600 feet from the North line and 1980 feet from the East line of Section 30, Pownship 12 South, Range 34 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Upper-Hennoplyanian oil pool and the production of gas from an undesignated Devoman gas pool through parallel string of 2 inch tubing.

CASE

1612

NOL

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

KR. NUPPURE de wall cake next Case Pole.

MR. PAYNA: Case 1012. Application of Santiage Oil

& Gas Company for an oil-gas dual completion.

NR. CHRISTY: Sim Christy of Hervey, Now and Hinale

for the diplicant, denvioye Gid - Sta Company - Lowell He developed in the testimony, contraction, Texts are fits that and iron, drive, s, and diversionare the fits - denote Office tend involved in this by Nestion, and Dr. Bondon is the nearest offlet servon. Is note, on services the city, of the and correct coples of the spallest on to be see offlet operators, and we offer in evidence the registered roturn receipts in connection with that mailing.

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

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

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

MR. CHRISTY: Plank you.

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

MR. CHRISTY: Je 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:

Sould you please state your name, address, and occupation:

D. Breum, BOUL BUT Gree Merkey (dosse, Texas)
By whom the year one extend on a first sepremity:
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DEADY EXCILATE MEAN A ASSOCIATE TRANSPORT AND A AND AN 3

mana we of aver-time.

Nares greate clarates for an Ares of Ares and Ares and Street Ares. The second second second second second second

1012 filed in this connection and the maxuers therein contained;

4

A Yes, ste.

Now, have you oreviously continued before the New Mexico Oil Conservation Commission?

A No, Ir.

Q As an expert in matters again 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 appoplied 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 Pmpire Field located in Numble County, and also, since I have been with Santiago, several wells in Eator County.

completion of a mulaer of wello in the last three or feur gears?

Come Completence of the

MA. CHAISTY: Does the Commission have any questions

concerning the qualifications of the witness to contrys

MR. NUTTER: No, please proceed.

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

A To obtain approval to produce oil from the Fennsylvanian 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.

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

A Yes, sir, that's correct.

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,

2 Have you conducted tests to determine whether or not the well is susceptible so production of oil or gas in one or more somest.

: Yes, str.

and what are the results of those tests:

1 Drill slem jests were talen of both the lenisgly might

5

ord the bevonian, and it was found that it was subsectible to off out of the remayivanian and gas out of the sevenian.

Q Now, have you taken completion tests on this welly.

No, sir.

9 Would you explain to up 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--

C That's the diagrammatic sketch:

A That's the diagrammatic sketch.

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.

0 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 competature survey, found the top of the cement sack at 5200. After to hours we wested the staing with 3,000 counds for two and a saif bound, and we round no drawdown at all.

To this pressure continuous:

Continuous.

1

9 All Pight, go ahead.

A Then we perforated the Devonian Formation from 12,399 to 12,924, also the Fennsylvanian from 10,218 to 10,230, from 10,250 to 10,258, then a Baser Model "K" Production Packer was set on a wireline at 12,875 rest.

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 13/64 Inch choke, we recovered 48 barrels of 45 gravity pipeline oil, or for a calcualted 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 chose, producing at the rate of nine and a half million MCF dep day, with 54 barrens of 64 degree growing distillate per one . This each feat of gas.

and dual completion tend to protect corrective righter

Yes, str.

that the well is susceptible to producing oil and gas in more than one pay zone?

A Yes, sir,

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.

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:

Tt is definitely distillate. As a stated, it is 52 degree gravity. This was determined by country a pressure comb inside of the tubing to approximately 1,200 dec... The tubing

> DEARNLEY MULES & Associates General Letters Control ALBRIGGE NEW Mission Phone Chapel 36691

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

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.

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

A That is correct.

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.

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

A That is correct.

Now, these two reservoirs we have spoken of, they are second in the well behind the site?

760. Jun.

and in your opinion, do you feel shot there is a possibility of commingulation of these fluids between the upper rennsylvanian and the Devonian formations

A No, sir.

How about the fresh water zones are they protected?

A Yes, sir.

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

A Yes, sir.

() Is this type of dual completion one customarily used in the Lea County area:

A It is.

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

A Yes, star.

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

. Yes, sir, it surely will.

, expendent is to the surface, please.

of this coming to the top of the surface, and after it reaches

Phone CHopel 3-6691

the top of the surface, you have two wing trades, which is separating the two zones, and two choses with two zings going in sposite directions, the two flow lines going to two separate tank batteries. 11

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

A Yes, sir.

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

A No, sir.

1 Do you have any paraition 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

7 That cleaning out will be more often, about every

four to six hours?

A I would say four to six hours.

 be you feel that that byte of technique will maintain a satisfactory parafill control in units wells;

jes, sir.

New, deel this proposed dual completion technique

DEARTHON MEDRIA AND ATES COMPANIES RECOMENS AUBOOJERQUE NEW MEXICO Phone Chapel 3:6691 two recommended to the agriculton base fiel methods

A lo, sir.

Now, if the approximation is granted, does Santiago understand that is may be necessary to the preser leakage tests and otherwise comply with various maingo of the Commissiony

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 tost and circulating test, the filing of reports, reserve pressures, packer setting affidavits, and we have, in Exhibit --

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.

(Now, under this proposed method of dualling, as it possible to make bottom hole pressure tests on each separate sone, 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 Devomian, and inside the two inch tubing string to 10,230 for the Pennsylvanian, and recording each zone pressure by chart motiod.

2 Driver have initial bottom hole pressures on this webs from the two zone.t

Mag 4. C and ble center was a realized by 300.

DERNEY AND MARKER ASSOCIATED STATES AND SECTION AND STATES OF THE MERCO Phone Chopel 3 6691 ÷ . -
Let the shirt of the second strands and the second second

All Theodol the Gar deserve each to show the

(Now, turning to the economics of the matter, when is the difference in cast of dual complexing this well or dritting a twin well to the Permagivaniany

 $\Delta = \Delta_{\rm All}({\rm roximately} $235,000).$

C That is what it would cost to drill a Pennsylvanian well:

A To drill a Pennsylvanian well, and I believe it would cost about 375,000 to dual complete (t.

So that there is a saving of approximately \$105,000?

A That is correct.

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

A He do, and ---

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

A Yes, sir.

6 Now, were Sthibits 1 and 2 prepared by you or under your direction or supervisions

A Yes.

.

MR. CHRESTY: Santhage offers in exidence Exhibits 1, 2, 3, and 5. At this time we offer ask of sid Willibits, except 4, and that has previously been computed.

BR. HENRY: "Talena astaction, thittin 1, 8, 5, Sea 5 was be computed in estimate.

(W THE CHARGE THE READER OF BEECK CONTRACTOR STREET

The state of the second s

<u>.</u>

No, sir, i do not.

ER. CHAISPY: le lave no further questions of this withese.

MR. NUTTER: Any questions of Mr. Shount

MR. FISCHER: Yes.

MR. NUTTER: Nr. Fischer.

CROSS EXAMINATION

BY: MR. FISCHER:

1 That type of tubing is that that you were putting in this well, upset --

A Upset two luch, d0 on the long string and flush joint Hydril on the upper string.

• I don't recall if you said this, was this present, this lower packer at 12,855, pressure tested?

A Yes, sir.

6 And found to be in good shape;

A Yes, sir.

MR. FISCHER: Mettic all.

MR. FORMAL A leader question. To this a wildest

wallt

and the second second

MR. 10.01 Me. John Romest

1/03 31×

D'EANNER MERRA A ANDO MED MINISTO SUCCESSION ALE DOCEPTIBE NEW MERCO Phone Chopel 36691

UNDEX RUCE TO THE SECOND

Mar. Presmu ander sind joer oop indersplat of the U. He Graing wuar

1. The lines sculling is net still, 10% feet.

you correct that then, if that is in cerety

A Yes, sir, that is in error.

MR. CHRISTY: So that Fxaibit 2, you are changing 13,035 to 13,1021

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 welf, or we will flow it interstituently, you can set it to flow over a period, and when it comes back, is will flow through the choic into the battery and deposit the oil and the cil will be sold.

too, Mr. Secon, I bettere per stated that when you took your powerstal test of the formany that the potential was nine and a half million MR. Then we take and a half million MR.

DEANING MALES A ANTALATER ALES 2 ANTALATER MALES A Phone (Hapel 3 469)

Plathe Plate

Now, which bedrevenes to said refree from density density of a stated they have to len 40 house of sort, collect these side side stated they have to len 40 house of sort, collect the side side state. March the lat, to 3:00 clas. March the and and March the and. 5:00 class to March 3rd. Has that well been produced any except this one 45-hour period?

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

Do you unline 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.

At the rate they were flowing it?

A Yes, sir.

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

A Yes.

You stated the gravity was al degrees in the Deventant

i Maa, alp.

MR. _ ASCUFA: Clarker all.

(1) A. METUTA: Treas information of the function of the activity of the function of the fun

<u>ertin secont</u>

FR. FLOTER I have one other greation

OURSTICUS X R. DESCER.

Is 't yoar opinion bri Grean vist the Deconian is a gas pool, condensate poolt

A Yes, str.

0 Oragas --

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 Gil Conservation Commission to date advertised any case for the creation of a pool for either of these zones?

A No, str.

MR. NETER: They are still undesignated.

MR. CHRISTY: That is correct.

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

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

MR. NUTTER: Does anyone have anything further they wish to offer in Case 1911. We will take the case under advisement and take a flue minute brown.

> (1) AND SEC MELLING A AND ALLS DEPARTMENT AND DEPARTMENT ALLS DEPARTMENT Phone Chapter 3:6591

CARE OF LUC RELICO CURRENCE RELATION

- I, Joseph A. Trajillo, Notary Pablic in and for the County of Bernalilio, 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.

a complete record of the proceedings it

exico Oil Conservation Commission

the Examiner hearing of Case No.

. . . .

DAT ID this 19th day of March, 1959, in the City of Alguquerque, County of Bernallilo, State of New Mexico

heard W he cn....

New

My Commission Expires: I do hereby certify that the foregoins

October 5, 1960

Phone CHopel 3 6591

3-11 1977.

Lucler, Examiner.

CARE 1612

SANTIAGO DIL & GAS COMPANY

80X)205 MU 2-7971 2205 WILCO BUILDING MIDLAND, TEXAS

February 10, 1959

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 ...

୍ର.

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, HIPM, 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,

ma Bance

Delma Baucum SANTIAGO OIL & GAS COMPANY

DB/ns

cc: State Land Office

Pan 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

NEW MEXICO OIL CONSERVATION COMMISSION

4

SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

Operator		County		Dare / /	
- వహిగవర్ర రహిజ్ 10 గెక		Lease		Well No.	
ocation Unit	Section	Township		Range	1.
. Has the New Mexico Oil C zones within one mile of th	he subject well? YE	on heretofore authorized the dual com S NO rder No; Operation		•	r in the same
. The following facts are su	bmitted:	Upper Zone		Lower Zone	
o. Name of reservoir		Ipper Fun		Bevenian	· · ·
b. Top and Bottom of Pay Section (Perforations)		,21°-10,23 ⁴ ;10,250-10,25	9, 12,	899-12,921,	
e. Type of production (Oil	or Gas)			s Distill (s	have
d. Method of Production		-		• .	
(Flowing or Artificia	<u> Lift) </u>	<u> </u>		<u>F1</u>	
	trings, including diam av be pertinent.	npletion, showing all casing strings, eters and setting depth, location and	type of packers	and side door chokes, a	and such other
 a. Diagrammatic S tervals, tubing si information as m b. Plat showing th operators of all l c. Waivers consen been furnished consen X d. Electrical log consen 	trings, including diam ay be pertinent. he location of all well leases offsetting appli iting to such dual com opies of the application of the well or other ac	eters and setting depth, location and s on applicant's lease, all offset we	type of packers lls on offset leas in lieu thereof, e copies by a f producing zone	and side door chokes, a es, and the names and widence that said offse wegistered mail s and intervals of perfo	and such other addresses of t operators ha ration indicate
 A. Diagrammatic S tervals, tubing sinformation as maximum b. Plat showing the operators of all l C. Waivers consent been furnished consent been furnished consent thereon. (If such is the all offset operators to the consent to the consent been furnished to the consent been furnish	trings, including diam ay be pertinent. he location of all well leases offsetting appli tting to such dual com opies of the application of the well or other ac- h log is not available or the lease on which th	eters and setting depth, location and s on applicant's lease, all offset we icant's lease. pletion from each offset operator, or on.* Operators baing cont. ceptable log with tops and bottoms o at the time application is filed, it sh his well is located together with thei	type of packers lls on offset leas in lieu thereof, e copies by 1 f producing zone all be submitted r correct mailing	and side door chokes, a es, and the names and evidence that said offse registered mail s and intervals of perfo as provided by Rule 11	and such other addresses of t operators ha ration indicate
 X a. Diagrammatic S tervals, tubing si information as m X b. Plat showing th operators of all l c. Vaivers consen X d. Electrical log of thereon. (If such is the operators to see the operators to see the operators to see the second secon	trings, including diam ay be pertinent. the location of all well leases offsetting appli- ating to such dual com- opies of the application of the well or other ac- the log is not available the lease on which the coleur. Corporat.	eters and setting depth, location and s on applicant's lease, all offset we icant's lease. pletion from each offset operator, or on.* Operators baing cant. ceptable log with tops and bottoms o at the time application is filed, it sh	type of packers lls on offset leas in lieu thereof, e copies by a f producing zone all be submitted r correct mailing leans	and side door chokes, a es, and the names and evidence that said offse registered mail s and intervals of perfo as provided by Rule 11	and such other addresses of t operators ha ration indicate
X o. Diagrammatic S tervals, tubing su information as m X b. Plat showing th operators of all l c. Waivers consen been furnished cu X d. Electrical log cu thereon. (If such i. List all offset operators to Pan Interview Potr	trings, including diam ay be pertinent. the location of all well leases offsetting appli- ating to such dual com opies of the application of the well or other ac- the log is not available on the lease on which the colour. Component.	eters and setting depth, location and s on applicant's lease, all offset we icant's lease. pletion from each offset operator, or on.* Operators baing cent. ceptable log with tops and bottoms o at the time application is filed, it sh his well is located together with thei ion lox 268 Intbuck, 5	type of packers lls on offset leas in lieu thereof, e copies by a f producing zone all be submitted r correct mailing leans	and side door chokes, a es, and the names and evidence that said offse registered mail s and intervals of perfo as provided by Rule 11	and such other addresses of t operators hav ration indicate
X b. Plat showing st operators of all l c. Vaivers consen been furnished co X d. Electrical log co thereon. (If such 5. List all offset operators to Pan Actorican Potr Texas Facific Con	trings, including diam ay be pertinent. the location of all well leases offsetting appli- tting to such dual com opies of the application of the well or other ac- the log is not available othe lease on which the colour. Sorporat.	eters and setting depth, location and s on applicant's lease, all offset we icant's lease. pletion from each offset operator, or on.* Operators Using cont ceptable log with tops and bottoms o at the time application is filed, it sh his well is located together with thei lon Lox 268 Int. Usiland,	type of packers lls on offset leas in lieu thereof, e copies by 1 f producing zone all be submitted r correct mailing lexas lexas lexas	and side door chokes, a es, and the names and evidence that said offse registered mail s and intervals of perfo as provided by Rule 11	and such other addresses of t operators hav ration indicate

CERTIFICATE: 1, the undersigned, state that I am the <u>Company</u> of the <u>Company</u> of the <u>Company</u> of the <u>Company</u> of the <u>Company</u> (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 trues correct and complete to the best of my knowledge.

Bancus 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 Basel Completion of t

Santiago Cil & Gas Dompany State 1-30 Well No. 1 Unit P. Section M. Tsp 12, B34 Wildoat Lea County, New Mexico



Here drawn to scale

27 Ozeren a da G

4.1 4 10-54 8 10-54 8-210 54 **1 1 1 1 1** 7 18 14 7 19 14 A == - >==+= 3-1:5-59 E 24464 6 10 64 1 9854 5 10-54 7 2059 19. :0354 1 33 2-10-31 Ľ 6 () 6 6 () 6 6 () 80 nda: Mari 7-21-43 8-7244 1.1.1 44.54. * 5.6° 86.159 19124 5 Guif 137 8-230 Philips NBN E-1253 # : 40 12 10-62 E 4446 Par Jan 1 3: 36 6 3:36 3-10-40 E 3349 (**4,00**) 1 18 68 2 436 Eutr 10-11-50 F-3055 G.M. Car 1-10-29 2-2347 alph Lu 6-10-63 E-7166 1.1 + 4 u E-279 Ľ 3104 06 141 ଚ 0 12 11 1 2-10-34 2-11-34 116 4-10-50 8-10412 5-10-6 1 مرد د ۲۰۳ 8.74 6 6 6 6 nago bila Silin da Kobaba 4-18 4-18 12-10-62 - #4 1 1 H 8.P. 1 10-62 E-5874 1 11 (¢ 6,5 *** 5 M/ 7 Acor, 5 - 13 -----Seacach B 14 141 33 45 Phillips 3-10-57 E-1233 PC (...) - NL 4.7 16 191 2 4-10-43 E-7164 H & 7 17.1 Seven, AU Interant Ca Ċ Seat Searce Semi Philip. Hu 3-1 E (Amerad H.B.P B. 1970 Sur 3-10-99 C-3466 14 0.93 4 8 95 6 46 1.1.1 B-9471 12 34 s. 21 20 22 4 - 16 - 1440 17 - 17 - 17 19 17 4 H. B. F A-10007 은 10063 3-16-29 2-10-34 1-10-4 L-347 ------ 10 1 - 40 1 - 40 ¿(Fhillips) (660 /0-1: 1903/ ۰, a to sea in 5-44-4 مر بیسم ۲۰ بزبر ۹ ا EA ·· 15 p 1 : K 16 % ago Th. E 2631 1.2430 • 良間 29 Анасын - н в Р - 8- 5 Ма P. - Kangr 10-62 F. 5411 ୍ତୁ 1 ۲. na series Brita 201 5.24 n den den in den ber Selecteden berenden Bild State berenden Alder ander berenden Alder ander bereiten 2014 - 1944 7 21 63 6 7777 P Kultopa 9-30-54 6-3065 ••••• î. 614 141.4 17.4 17.4 1 H B 2.2 1.64 Tutor 8.10-98 8.3478 1100 54 1100 54 1100 54 1.04 9.00 4-10-60 7-34-71 7.61 2 1 E 22 TE A 111 ыныны 98-99 ::: Section 31 7122 83/2

Santiago Cil & Car Company Ctate No. 1-30 (60/N & 1900/C T - De Duel Offset in Section 19: Phillips Pet Co. Cignal No. 1 (19/S & 1960/A Delg. FX G. MCCORMICK AND ASSIGLATES TTATE 1-30 LEASES LEA COUNTY, NEW MFXLOU "EXHIBIT ""

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

Chex 1613 7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildowt Decrator Bentiage Oil & Gas Company Location Unit of Weil B			2/10/59	
of Weil 보	Lease	Diate	Well No.	
	on	Township	Range	
		12 South	20 20	
 Has the New Mexico Oil Conservation Conzones within one mile of the subject well If answer is yes, identify one such instant 	YES NO			n nic same
I. The following facts are submitted:	Upp	es Zone	Lower Zone	
u. Name of reservoir	Hunger Per		Detrenden 1	
b. Top and Bottom of				1 / 1 / 1
Pay Section	10,718-16,	236;10,290-10,298	12,879-12,984	
(Perforations)				<u> </u>
c. Type of production (Oil or Gas)	011		Ges Matillate	
d. Method of Production				
(Flowing or Artificial Lift) I. The following are attached. (Please mark		l	<u></u>	
	g diameters and set		ng size and setting, top of ceme f packers and side door chokes,	
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CERTIFICATE: 1, the undersigned, state that I am the _______ Production liansger ______ of the Sentiago Oil & Gas _______ (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 Baucur 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 protation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





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