CARE 6962: BTA OIL PRODUCERS FOR SPECIAL POOL KULES AND POOL EXTENSION, LEA COUNTY, NEW MEXICO

(105e 1110.

6962

Application

Transcripts

Small Exhibits

STATE OF NEW MEXICO

general of the National



ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2008
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 97801

August 6, 1980

Mr. Thomas Kellahin Kellahin & Kellahin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico Re: CASE NO. 6962 ORDER NO. R. 6424

Applicant:

RTA Oil Producers

Dear Sir:

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

Director truly,

JDR/fd

Copy of order also sent to:

Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6962 Order No. R-6424

APPLICATION OF STA OIL PRODUCERS FOR SPECIAL POOL RULES AND POOL EXTENSION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 9, 1980. at Sents Fo, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 4th day of August, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, BTA Sil Producers, has completed its 7909 JV-P Well No. 1 located 1650 feet from the North line and 2510 feet from the West line of Section 18, Town-ship 23 South, Range 34 East, NMPM, Las County, New Mexico, as a gas well in the Devonian formation, producing through perforations from 14,660 feet to 14,708 feet.
- (3) That said well is located approximately 1.5 miles south of the Continents 10:1 Co. Bell Lake Unit Well No. 6, which is in Unit 0 of Section 6 of said Township 23 South, Range 34 East, and for which the North Bell Lake-Devonian Gas Pool was created and defined by the Division March 1, 1962, comprising the SE/4 of said Section 6.

-2-Case No. 6962 Order No. R-6424

- (4) That the applicant seeks the extension of said North Bell Lake Devonian Gas Pool to include its 7909 JV-P Well No. 1, and further eachs the promulgation of special rules and regulations for said pool including a provision for 640-acre spacing and specified well locations.
- (5) That the evidence presently available indicates that said Bell take Unit Well No. 6 and applicant's 7909 JV-P Well No. 1 are indeed both producing from a single common source of supply in the Devonian formation, and that said North Bell Lake-Devonian Gas Pool should be extended to take in said 7909 JV-P Well No. 1.
- (6) That the evidence further indicates that one well in said North Bell Lake-Devonian Gas Pool is capable of draining 640 acres and that 640-acre spacing and proration units should be established for said pool with well locations for future wells to be no closer than 1650 feet to the outer boundary of the unit, nor closer than 330 feet to any quarter-quarter section line.
- (7) That an order embodying the above findings is in the interest of conservation, will not cause but will prevent waste, will not impair but will protect correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

(1) That the North Bell Lake-Devonian Gas Pool in Lea County, New Mexico, as heretofore created, defined, and described, is hereby extended to include therein:

TUWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 6: N/2 and SW/4 Section 7: All Section 18: All

(2) That Special Rules and Regulations for said North Bell Lake-Devonian Gas Pool are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE NORTH BELL LAKE-DEVONIAN GAS POOL

RULE 1. Each well completed or recompleted in the North Bell Lake-Devonian Gas Pool or in the Devonian formation within one mile thereof, and not nearer to or within the limits of another designated Devonian gas pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinefter set forth.

-3-Case No. 6962 Order No. R=6424

- RULF 2: Each well shall be located on a standard unit containing 640 acres, more or less, consisting of a governmental section.
- RULE 3. The Director of the Division may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the logal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:
 - (a) The non-standard unit consists of quarterquarter sections or lots that are contiguous by a common bordering side.
 - (b) The non-standard unit lies wholly within a governmental section and contains less acreage than a standard unit.
 - (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
 - (d) In lieu of Paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Division Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Director has received the application.
- RULE 4. Each well shall be located no nearer than 1650 feet to the outer boundary of the section and no nearer than 330 feet to any governmental quarter-quarter section line.
- RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to a deeper horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all

-4-Case No. 6962 Order No. R-6424

operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the North Bell Lake-Devonian Gas Pool or in the Devonian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Division in writing of the name and location of the well on or before September 1, 1980.
- (2) That, pursuent to Paragraph A. of Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, existing wells in the North Bell Lake-Devonian Gas Pool shall have dedicated thereto 640 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or provation units established by the Division and dedicated thereto.

Failure to file new Forms C-102 with the Division dedicating 640 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the North Bell Lake-Devonian Gas Pool or in the Devenian formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

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

DONE at Santa Fe, New Mexico, on the day and year herein-

STATE OF NEW MEXICO OIL CONSERVALION

JOE D. RAMEY,

// Director

dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 9 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of BTA Oil Producers for special pool rules and pool extension, Lea County, New Mexico.

CASE 6962

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

Division:

Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

500 Don Gaspar Santa Fe, New Mexico 87501

25

1

2

12

15

16

17

18

19

For the Oil Conservation

Ernest L. Padilla, Esq.

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN

INDEX

STEVE PAYTON

Dire	ect Exa	arinatio	on by M	r. Ke	llahin	
and have a second				11111111111		19 19 19 19 19 19 19 19 19 19 19 19 19 1
Cros	ss Exai	nination	by Mr	. Nut	ter	12
			<u>-</u>		1. Contract to 1.	

STEVE SALMON

Direct	Exami	nation	by M	r. Ke	llah:	in		14
	4.						12.72	
Cross I	Examina	ation b	v Mr	. Nut	ter			22

Applicant	Exhibit	One, Summpary 4
Applicant	Exhibit	Two, Structure Map 4
Applicant	Exhibit	Three, Plat
Applicant	Exhibit	Four, Cross Section 9
	in in akalah ser menjakan	Five, Rate Curve 15 Six, Tabulation 16
Applicant	Exhibit	Seven, Rate/Cum Curve 19

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Senta Ps. Now Mexico 57301
Phone (305) 451:7409

12

MR. NUTTER: Call next Case Number 6962.

MR. PADILLA: Application of BTA Oil

Producers for special pool rules and pool extension, Lea County, New Mexico.

MR. KELLAHIN: Tom Kellahin of Santa Fe New Mexico, appearing on behalf of the applicant, and I have two witnesses.

(Witnesses sworn.)

STEVE PAYTON

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Would you please state your name, by who you're employed, and in what capacity?

My name is Steve Payton. I'm employed BTA Oil Producers of Midland. I've worked with BTA a year and a half and I've testified before the New Mexico OIl Conservation Commission Defore.

- Mr. Payton, you're a geologist, are you
- Yes, I'm a geologist.
 - And you've testified previously before

16

15

12

13

18

17

21

the Division in that capacity?

. Yes

Q And as a geologist have you made a study of and prepared certain exhibits for this application?

A. Yes

MR. KELLANIN: We tender Mr. Payton as a expert geologist.

MR. NUTTER: Mr. Payton is qualified.

Q Would you please refer to what we've marked as Exhibit Number One and identify that and tell us what the applicant is seeking?

A. Exhibit Number One is a summary of the application. BTA asks for an extension of the Bell Lake-Devonian North Gas Pool to include Section 6, 7, and 19 of Township 23 South, Range 34 East, Lea County, New Mexico.

pool rules to include 640-acre spacing and well locations within a spacing unit no closer than 1650 feet from the outer boundary lines; no closer than 330 feet from a governmental quarter-quarter section.

Q. Would you turn to what we've marked as Exhibit Number Two and identify that?

A. Exhibit Number Two is a structure map on the top of the Devonian; scale 1 inch equals 2000 feet with 100-foot contours.

ALLY W. BOYD, C.S Rt. 1 Box 193-11 Satus Fe, New Merico 57301 Phores (507) 455-2400

Santa Fe, N Phone (3

17

11

12

13

14

15

16

19

21

22:

23

The red solid line running north and south

11

12

13

14

15

16

17

18

19

20

ber?

BTA's Bell Lake No. 1 is located in Section 18, Township 23 South, Range 34 East, Lea County, New Mexico.

The field limits are determined by the gas/water contact, which is shown by a blue dashed line at a subsea depth of 11,350.

would be discussed later in connection with the cross section. The nearest current producing Devonian gas well is the Contenental Bell Lake Unit Well No. 6, located

That Continental well in Section 6 is the discovery well for this pool?

a mile and a half to the north of BTA's well.

And when was it completed, do you remem-

1961,

The Bell Lake-Devonian Pool rules have been established since approximately that date?

Yes. I believe it has 160-acre spacing.

All right, Do you have a recollection as to what the order number is and the date of the order that established the 160-acre spacing for this pool?

The existing rules for the subject pool were established on March 1st, 1962, by the Division Order Number R-2187, and include a provision for 160-acre spacing.

21

23

24

Now when did you complete the BTA well in

	3	A	June of 1980.
	4 .		What is the status of the Continental
eti i i i i i i i i i i i i i i i i i i		well in Section	16 that is south or your well?
era englist en light planting words in land planting en light	8	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	This is the Continental Ball Lake No. 1
eren (200 kilonia kilonia 200	7	and it's current	ly plugged.
41	8		MR. NUTTER: 10 or 9?
	9		MR. KELLAHIN: No. 9, the one in Section
C.S.R.	10	18.	
	49	A	Oh, okay, in 18. That's a Bone Springs
SALLY W. BOYD, C.S. Rt. 1 Box 193-3 Santa Fe, New Mexico 87501 Phone (303) 435-7409	12	well and it is c	urrently plugged.
	13	Q	All right, continuing on down to the so
	14	in Section 19, t	hen, what's the status of that Continental
	15	well there?	
	16		It's a Devonian gas well which has been
	17	plugged.	
	18		Okay. You propose to have what acreage
	19	included in the	Bell Lake North Devonian Pool?
	· 20	A .	Sections 6, 7, and 19.
	21		MR. NUTTER; What did you say the No. 9
	22.	in Section 18 pro	oduced from?
	23		Bone Spring.
	24		MR. NUTTER: Bone Spring.
	25	Q	Let's go to Exhibit Number Three, Mr. Pa

ton, and have you identify that for me.

A Exhibit Number Three is a producing field map. BTA's well, Bell Lake Well No. 1, is indicated by the red dot.

The Mid Bell Lake Gas Field is located

one mile south of BTA's Bell Lake No. 1. The field made 900million cubic feet of gas from one well, which is now plugged.

The Bell Lake North Gas Devonian Field
has produced 23.9 Bcf from one well. It is presently making

1.7-million cubic feet of gas per day, plus 780 barrels of water per day.

Q Taking Exhibit Three, would you identify, then, for me which of these Devonian pools are spaced on 640 acres?

A. Okay. The Bell Lake South Gas Devonian Field is located 3-1/2 miles to the south of BTA's well. It is an abandoned field. The field made a combined cumulative of 17.8 Bcf from two wells which are now plugged.

The Antelope Ridge Gas Devonian Field is located 3-1/2 miles to the southeast and is currently producing two wells and one well has been plugged in that field. The three wells have made a combined cumulative of 29.1 Bcf as of April, 1980. The two wells presently average 550 Mcf per day, plus 67 barrels or water per day, and both of these fields are on 640-acre spacing.

ALLY W. BOYD, C.:
R.: 1 Box 193:B
Santa Fe, New Medico 8750
Physic (2007) 455-2458

14

15

11.

12

13

2

16 17

18

19

21

22

24

ALLY W. BOYD, C.S.1 R. I Box 193-8 Santa Fe, New Medics 57501 Phone (Apr) 444-1400

12

13

15

16

17

20

21

22

23

24

Q All right, let's go back to Exhibit Number
Two for a couple questions.

How have you determined what acreage ought to be included within the Bell Lake-Devonian Pool?

A All right. The limits are defined by the gas/water contacts and by the fault to the east and the fault to the south of our well.

Q How did you determine the existance of those faults?

A By seismic.

Q. Okay.

A. The gas/water contacts were determined by tests performed on the wells both north and south of BTA*s well, which I will get into later.

Q Is Section 18 controlled entirely by BTA Oil Producers?

A. Yes. We have the entire 640-acre. We have partners in the drilling of that well.

Q That 640-acre section is available for dedication to one well?

A. Yes

Q And what is the ownership situation for the Continental well in Section 6?

A That's in the Bell Lake Unit and I'm sure there are a number of people within that unit.

12

13

14

15

16 17

22 23

24

All right. Show me what indicates the

Okay.

-- limits of the Bell Lake Unit

-- operated by Continental.

There are nine sections within the unit, shown by the dashed dark line. This is north of BTA's well, in Section 18.

All right, sir, let's go to your Exhibit the cross section. That's Exhibit Number Four.

A Exhibit Number Four is a cross section showing the three wells in the area, shown by -- shown by the red line in the structure map, running from north to south, and the cross section runs from west to east. The lin of section between the wells is shown by from A to A'. top of the Devonian is correlated across Section, and the gas/water contact is shown as a black horizontal line at -11,350 to the north and shown in red at -11,265 to the south A fault is shown separating the well to the south. That would be the Continental Bell Lake No. 10,

The gas/water contact in the Bell Lake North Field is determined by test results on the Continental Bell Lake Well No. 6 in Section 6.

The Devonian was perforated in this well at separate intervals from 14,568, 14,829, as shown in green

The lowermost water-free drill stem test was made at an interval of 14,747 to 14,835, recovering gas to surface at a rate of 5.7-million cubic feet of gas per day, plus two barrels of mud, and three barrels of distillations.

calculated open flow of 30.5-Million cubic feet of gas per day, plus 36 barrels of distillate.

In 1971 a through tubing bridge plug was set at 14,750. A separate gas/water contact in the Mid Bell Lake Field to the south is determined by test results on the Continental Bell Lake Well NO, 10 in Section 19.

Two drill stem tests were run with both recovering water. The Lowermost drill stem test from 14,820 to 14,890 recovered 890 feet of gas-cut mud, plus 2540 feet of gas-cut sulphur water.

The second drill sem test from 14,728 to 14,890 recovered 211 Mcf per day, glus 2220 feet of highly gas-cut sulphur water.

The Devonian was perforated from 14,747 to 14,811 and acidized with 15,000 gallons. This well was completed flowing 3.2-million cubic feet of gas per day, pine 160 barrels of water per day, in March, 1965. It was plugged in December, 1974.

The BTA Bell Lake Well No. 1 in the center

ALLY W. BC/YD, C.
Rt. 1 Box 93:8
Santa Ft. New 14 mics 6730
Phone (303) 455-7409

Santa Fe, N Phone (

> 15 16

13

14

17

18

19

21

22 23

24

%

12

14

13

16

17

22

23

of the cross section was drilled to total depth of 14,727. The lowermost drill stem test covered the entire Devonian formation and was -- that was penetrated, and recovered gas at 169 Mcf per day, plus 3000 feet of water blanket, and 925 feet of drilling fluid.

to 14,708, and acidized with 10,000 gallons -- or 300 gallons It flowed Mcf per day. An additional acid treatment was made with 10,000 gallons and the well was completed flowing 4.8 million cubic feet a day, plus 85 barrels of load water in 1980, May of 1980.

The well is currently being worked on. The tubing is currently being worked on but last production was 4.8-million cubic feet a day, plus 12 barrels of condensate per day and 2 barrels of water per day.

Based upon your study of the geology, Mr. Payton, do you have an opinion as to whether or not one well can adequately and effectively develop a 640-acre space unit?

Yes, I believe so.

Were Exhibits One through Four prepared by you or compiled under your direction and supervision?

Yes, they were compiled by myself and Steve Salmon.

In your opinion, Mr. Payton, will approve

or this application be in the best interests of conservation, prevention of waste, and the protection of correlative rights:

A Yes, it will.

û In your opinion will approval of this application avoid the drilling of unnecessary wells?

A Yes.

MR. KELLAHIN: That concludes our examination of Mr. Payton.

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Payton, it would appear from the crossection, Exhibit Number Four, that your well is perforated in the uppermost portion of the Devonian only and that producing interval would be the equivalent of the top two sections in the Bell Lake No. 6, is that it?

A. Yes

Q And your well wasn't drilled any deeper in the Devonian then, was it?

A That's right.

O And you perforated almost down to your TD, then.

A Yes. One foot above the Td, I believe.

Q. Why wasn't the well drilled any further

into the Devonian?

11

12

13

14

15

17

19

20

21

22

23

A. We were concerned about the gas/water contact. We wanted to stay as high above it as we could because the offset wells had been producing for a number of years and that was the main reason, just for staying out of the water.

better zones, according to DST's in the Bell Lake No. 6, was this interval down at about a -11,300, and you missed that by 300 or 400 feet.

A. That's right.

Q. Do you have reason to believe the gas/ water contact has moved in this structure?

A. Yes, we believe it has. The original gas, where contact was at -11,350. We took that from the bottom perfs, and since then a bridge plug has been set above that point and it's hard to define an exact gas/water contact in that well, but it has moved up since original completion.

Q well, now, was the purpose of this workover in 1971, where they put the tubing hridge plug in at
14,750, was the purpose of that to come up above the water,
Gas/water contact?

A. I would assume so.

Q. Had this well started making considerable

water?

A. I don't have the production. Steve Salmo

will present that, but wes, it had been making water,

And it originally hadn't.

It was completed water-free and it did start making water, yes.

And so to stay away from that water you just drilled into the top of the Devonian and stopped.

Yes.

Now this other well over here on the cross section, I guess /s immaterial because it's on the other side of the fault, anyway, but apparently it was just completed in the uppermost portion of the Devonian, also.

That's correct.

And it was abandoned with a very low cumulative recovery.

That's right.

Less than a billion,

MR. NUTTER: Are there any further questions of the witness? He may be excused,

STEVE SALMON

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit;

DIRECT EXAMINATION

BY MR, KELLAHIN:

15

12

13

16 17

19

21

20

13

14

15

16

17

20

21

22

Q Mr. Salmon, would you please state your name, by whom you're employed, and in what capacity?

A. My name is Steve Salmon. I'm employed, and have been employed, by BTA Oil Producers as a petroleum engineer for the last nine years.

Q. Have you previously testified before the Division as a petroleum engineer?

A. Yes, I have.

Q. And pursuant to your employment by BTA as a petroleum engineer have you made a study of and prepared certain exhibits of this application?

A. Yes, I have.

MR. KELLAHIN: We tender Mr. Salmon as an expert petroleum engineer.

MR. NUTTER: Mr. Salmon is qualified.

Q Mr. Salmon would you turn to what we've marked as Applicant Exhibit Number Five and identify that exhibit for us?

Producing curve for the Continental Bell Lake Unit 2 Well No.

6. The gas and water rate scale is on the lefthand side of the page. This is a log scale on the lefthand side. The time scale going from 1961 through 1980 is on the bottom of the page. The solid curve is -- represents the gas production.

SALLY

~

SALLY W. BOYE, C.S.
Rt. 1 Box 191-B
Santa Pe, New Mexico 87501
Phone (305) 455-7409

11

12

13

14

15

17

19

20

21

22

23

25

You'll notice the water production only goes back through 1974. The well was producing water prior to this but this data was compiled from the New Mexico oil and Gas Engineering Committee Annual Report, and prior to 1974 water production was not carried in the annual report on gas wells.

The Continental well started producing, as shown by the graph, in 1961, and in March of 1980 was still producing 53,385 Mcf per month, which would be 1.7-million cubic feet, or MMCF, per day.

It was also producing in March 24,180 barrels of water, or on a daily basis this would be 780 barrels per day.

Exhibit Six, I'd like to go ahead and mention at this time, is a tabular backup to the graph, Exhibit Five. And the cumulative production is shown on the last page of this exhibit, Exhibit Six.

Q. Mr. Salmon, what's the drive mechanism in this reservoir?

A. This reservoir appears to be essentially a waterdrive. As our geological witness testified, it was initially completed water-free, with the gas/water contact at -11,350 feet.

After this time it started making water and did have the through tubing bridge plug set, as shown

on our cross section.

engineer in Hobbs, he didn't have a number for what the well was making prior to the bridge plug set or after, but he did find a memo in their file that showed that after setting the bridge plug they hoped to obtain a water production of 200 barrels per day or less, so I assume it was making substantially more than this prior to setting the bridge plug.

You'll notice on the --

MR. NUTTER: What time of 19 -- that was set in 1971?

wouldn't -- he couldn't find an exact date in their files, except that it was set, but I assume it would be in September and October when the gas production of the well was down.

It looks like it was down part of those months. But looking at the gas production curve, you can see very little effect from the decline rate of the gas production due to setting that bridge pluy.

MR. NUTTER: It didn't change the gas

A. Right. So, personally, just based on the fact it didn't change the gas production, I doubt if it was very effective in shutting off the water. But, like I say, I have no data on what the water production was before

ALLY W. BOYD, C.S Rt. I Box 191-B Santa Fe, New Mexico 87301 Phone (305) 455-7409

SiALLY W. 1 Rt. 11 Santa Fe, No Phone (9

12

13

21

23

and after, so I can't say that conclusively.

Q What was the original pressure in the reservoir, Mr. Salmon?

psi. Continental is not required to report annual shut-in tubing pressure, but again in discussing this well with the Continental engineer, he found a memo in their file where the well was shutin about four years ago, and the memo said that the shutin tubing pressure indicated a bottom hole pressure in the range of 6000 to 6200 psi.

Q When was your BTA well drilled?

Well, we completed it in June of 1980.

Q. And what was the initial pressure on that

well?

A The initial shutin tubing pressure, based on 181-hour shut-in after just a very small flow period, was 4630 psi. This yielded a calculated bottom hole pressure of 6072 psi.

Q. What conclusion do you reach from the pressure information?

A Well, we feel that this is an indication of some pressure depletion due to the existing producing well. A strictly depletion drive reservoir of this size would show a substantially greater drop in this than the 300 to 400 psi pressure drop we've seen, though this confirms our -- the

Rt 1 Box 159-3 Santa Fe, New Methos 87501. Phone: (395) 455-7409

17

12

13

14

18

20

21

22

MR. NUTTER: You've got infinite reserves

2...

Ĭ.

8

10

12 13

14 15

16

17

18 19

20

21

22 23 production on the well that it's essentially a waterdrive reservoir with possibly some pressure depletion, though the pressure depletion is very minor.

Q. Have you made any pressure -- I'm sorry
any reservoir estimates for this Continental No. 2 Well -No. 6 Well?

A. Yes.

Q Is that Exhibit Number Seven?

A. Right. Before we get to that, though, I attempted to extrapolate the rate/time graph that was Exhibit Number Five to obtain a reserve -- a decline curve reserve for this well; however, the curve is curving up, which indicates that any extrapolation made from that curve would probably be on the low side, because each year, as it flattened out more, you'd get a higher reserve number for the gas.

And that is Exhibit Number Seven?

A. Yes. Okay, this is Exhibit Seven. Okay this is Exhibit Seven.

As you can see, the points plotted on this curve form a pretty good straight line. These points

SALLY W. BOYD, C. R. 1 Box 199-3

23

are the year end rates for each year, and we tried to take December of each year, but if December was abnormal, we took what a normal rate for December would have been for each year. and and the property of the same of the state of the stat

The last point shown on the graph is Marc of 1980.

Extending this line out to a rate of 10-million cubic feet per month, which would figure out to just over 300 Mcf per day, you get -- you would come up with a reserve of 52 Bcf for the well.

MR. NUTTER: And what rate of production would that have been at?

At the 52 Bcf it would be 10-million cubic feet per month, or that would be approximately -- that would be 10 MMCF per month, which would figure out to be approximately 330 Mcf per day.

MR. NUTTER: Okay.

Based upon your study, Mr. Salmon, do you have an opinion as to the drainage area for the Continental well?

Yes, I do.

A pore volume reserve, based on the structure map, which was presented as Exhibit Two, and the log calculations based on the Continental Bell Lake Unit 2 Well No. 6, indicates a gas in place of 82 Bcf. The 52 Bcf

15

17

11

12

13

2

21

23

the rate/cum extrapolation would yield a 63 percent recovery factor for the total field, and this would be a reasonable recovery factor for a waterdrive reservoir. Therefor, we feel like the well is draining essentially the whole reservoir.

When you speak of the whole reservoir, what area are you talking about?

A Okay, if you'll refer to Exhibit Two. we're talking about all of the area bounded by the -11,350 foot gas/water contact and the fault, which are essentially Sections 6, 7, and 18 of Township 23 South, Range 34 East, and some minor peripheral area outside of that.

MR. NUTTER: Now that's the area you say would have the 82 billion cubic feet of gas in place?

Yes.

Now, in total areawise, this would amount to 3272 acres, or it's roughly equivalent to 5.1 sections.

In your opinion, then, Mr. Salmon, could one well in this particular pool have the potential to drain and develop a 640-acre spacing and proration unit?

Yes, I feel like it very definitely would.

In your opinion will the changing of the pool rules to provide for 640-acre spacing avoid the drilling of unnecessary wells?

21

22

20

2

7

12

13

14

15

17

18

12

13

16

17

19

20 21

Yes, I think it will.

In your opinion will the approval of this application be in the best interests of conservation, prevention of waste, and the protection of correlative rights?

Were Exhibits Five, Six, and Seven pre pared by you or compiled under your direction and supervision

They were -- Steve Payton and I together prepared the exhibits for the hearing and we kind of intermixed our work on the various exhibits.

MR. KELLAHIN: That concludes our examination. We tender Exhibits One through Seven.

MR. NUTTER: Exhibits One through Seven will be admitted in evidence.

CROSS EXAMINATION

BY MR. NUTTER:

, Mr. Salmon, Continental has been sitting there with that well since 1961 and has produced almost 24 billion cubic feet out of it. Do you know whether they have any plans at this time to do any additional drilling in Section 7 now that you've brought your well in in 18?

Well, we approached them requesting a farmout on Section 7. They did, as a matter of interest, Continental did have the acreage on the south half of Section 18 and we do have a farmout from them on the south half of Section 18.

In discussing this with them, we requested a farmout from them on Section 7. They said that they wouldn't give us a rarmout because it was tied up with the drilling unit, and they liked the drilling possibilities on it.

Now, we, as far as I know, we never -we have not asked them pointblank, are you going to develop
it. I don't know what their gas price is or anything of this
nature, and it could be that this could interfere with their
drilling it.

If it was our lease, we'd recommend drilling, but Continental, I don't know. I can't say for sure.

Q What did your No. 1 Well in Section 18 cost?

A. It cost approximately \$2.4 million.

Now, our gas price on that well is \$2.25;
an Mcf.

And your well currently makes -- or on a test made about 4-1/2 million a day, is that it?

A This is correct, yes.

Q Do you have a connection for your well

Yes. It is connected to Transwestern

MLY (V. BOYE), C. S. R. 1 Box 193-B. Santa Fe, New Mexico 87501

16 16

11

12

13

14

17

19

20

21

22

23

yet?

24

o esperante de l'ordre la della presenta de la company

6

8

13

15

12

18 19

20

21

17

22

25

24

and prior to developing a tubing leak, was on production for several days.

And you have it out now making repairs?

A. Yes. We have pulled the tubing and found some holes in the tubing and now we're going to run the tubing back in.

Q How long had it produced?

A It went on production -- actually it went on May the 28th, so actually it went on production in May,

I guess I should say; went on production May the 28th and produced up until about three to four days ago.

Q You had about a month's production?

A So it's about a month's production, yes.

Q Did it show any characteristics change or anything during that time?

A No, it was producing fairly stable during that month. The only thing we did notice was initially we were making some load water. This load water has disappeared and it was apparently at least partially due to the tubing leak; and then water that we had lost while we were completing the well.

Q Now this 4-1/2 million a day, is that the amount it will produce into the pipeline?

A. Yes. In fact, the tubing pressure on that well is substantiall higher than pipeling pressure. The

LY 'W. BOYD, C.
Rt. 1 Box 193-B
14 Rs. New Menico 873
Phose (505) 455-7409

directive desprise de la companya d

ndiga kanggaran kanggaran na kanggaran kanggaran kanggaran kanggaran kanggaran kanggaran kanggaran kanggaran k

ALLY W. BOYD, C.S.R Rt. 1 Box 193-B Santa Fe, New Mexico 87501 Phone (503) 455-7409. 10

11

12

13

14

16

21

22

pipeline pressure is roughly 900 pounds. The flowing tubing pressure on the latest test we have available, which was just before we shut it in for the work, was 3950 psi, and the tubing pressure while we had been flowing it has increased. It did increase as the water, you know, decreased.

Q That's flowing tubing pressure.

A. That's flowing tubing pressure.

MR. NUTTER: Are there any further questions of Mr. Salmon? He may be excused.

Do you have anything further, Mr. Kellahi MR. KELLAHIN: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 6962?

We'll take the case under advisement.

(Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conserva tion Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6963 Examiner Conservation Division

18 19

11

12

13

14

15

16

17

20

21 22

STATE OF NEW MEXICO ENERGY AND MINERALS DEDARMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 9 July 1980

EXAMINER HEARING

a i decido a disconer de la properción de la compansión de la compansión de la compansión de la compansión de l

IN THE MATTER OF:

Application of BTA Oil Producers for special pool rules and pool extension, Lea County, New Mexico.

CASE 6962

BEFORE: Daniel S. Nutter

TPANSCRIPT OF HEARING

APPEARANCES

For the Cil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

15

12

13

2

16

21

STEVE PAYTON

	D£:	rect	Exami	nation	by Mx	Kellahi	n 3
		ใหม่ในกระบา	i sa Whas	ادار المسائلة بأدار العولا. حداثت الأمار بأدار العولا.	رايان 2 داروف دواهمها درواهد الدر	والأبدر إستسترالك	g dad da y i da wasan na
40,4	Cro	SS F	Examin	ation	by Mr.	Nutter	
12.3				alamin sarland K	Assert Control of the		

STEVE SALMON

Direct	Examinat	ion by	y Mr.	Kellah	in	14
			7.6		8.7	
Cross 1	Examinati	on by	Mr.	Nutter		22

EXHIBITS

Applicant	Exhibit On	e, Summpary			4
Applicant	Exhibit Two	o, Structure	Map		
Applicant	Exhibit Th	ree, Plat			6
Applicant	Exhibit For	ur, Cross Se	ction		9
Applicant	Exhibit Fi	ve, Rate Cur	v e	· · · · · · · · · · · · · · · · · · ·	15
Applicant	Exhibit Siz	x, Tabulatio	n		16
Applicant	Exhibit Sev	ven, Rate/Cu	m Curv		19

21

MR. PADILLA: Application of BTA 011

MR. NUTTER: Call next Case Number 6962.

Producers for special pool rules and pool extension, Lea County, New Mexico.

MR. KELLAHIN: Tom Kellahin of Santa Pe-New Mexico, appearing on behalf of the applicant, and I have two witnesses.

(Witnesses sworn.)

STEVE PAYTON

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Would you please state your name, by you're employed, and in what capacity?

My name is Steve Payton. I'm employed by BTA Oil Producers of Midland. I've worked with BTA a year and a half and I've testified before the New Mexico OIl Conservation Commission before.

Mr. Payton, you're a geologist, are you m

Yes, I'm a geologist.

And you've testified previously before

11 12

Yes.

And as a geologist have you made a study
of and prepared certain exhibits for this application?

A Yes.

MR. RELLAHIN: We tender Mr. Payton as an expert geologist.

MR. NUTTER: Mr. Payton is qualified.

Would you please refer to what we've marked as Exhibit Number One and identify that and tell us what the applicant is seeking?

A Exhibit Number One is a summary of the application. BTA asks for an extension of the Bell Lake-Devonian North Gas Pool to include Section 6, 7, and 19 of Township 23 South, Range 34 East, Lea County, New Mexico.

pool rules to include 640 acre spacing and well locations within a spacing unit no closer than 1650 feet from the outsit boundary lines; no closer than 330 feet from a governmental quarter-quarter section.

Q Would you turn to what we've marked as
Exhibit Number Two and identify that?

A. Exhibit Number Two is a structure map on the top of the Devonian; scale 1 inch equals 2000 feet with 100-feet contours.

Rt. 1 Box 193-B Smita Fe, New Mexico 8750 Phone (505) 455-740

Rt. 1 Santa Pe, N Phone

> 17 18 19

12

13

14

21

••• ••• •••

The red solid line running north and south

BTA's Bell Lake No. 1 is located in Section 18, Township 23 South, Range 34 East, Lea County, New Mexico.

The field limits are determined by the gas/water contact, which is shown by a blue dashed line at a subsect depth of 11,350.

would be discussed later in connection with the cross section.

The nearest current producing Devonian

gas well is the Contenental Bell Lake Unit Well No. 6, located
a mile and a half to the north of BTA's well.

Q That Continental well in Section 6 is the discovery well for this pool?

A. Yes.

Q And when was it completed, do you remain

A 1961.

Q The Bell Lake-Devonian Pool rules have been established since approximately that date?

A. Yes. I believe it has 160-acre spacing.

All right. Do you have a recollection as to what the order number is and the date of the order that established the 160-acre spacing for this pool?

A. The existing rules for the subject poolwere established on March 1st, 1962, by the Division Order.

Number R-2187, and include a provision for 160-acre spacing.

5.

3

10

12

11

13

15

ber?

17

18

20

21

23

24

	What is the status of the Continental
well in Secti	on 18 that is south of your well?
A.	This is the Continental Bell Lake No. 10
and it's curr	ently plugged.
	MR. NUTTER: 10 or 97
	MR. KELLAHIN: No. 9, the one in Section
18.	
. A. 1	Oh, okay, in 18. That's a Bone Springs
well and it i	s currently plugged.
Q.	All right; continuing on down to the sout
in Section 19	, then, what's the status of that Continental
well there?	
A.	It's a Devonian gas well which has been
plugged.	
Q	Okay. You propose to have what acreage
included in th	ne Bell Lake North' Devonian Pool?
	Sections 6, 7, and 19.
	MR. NUTTER: What did you say the No. 9
in Section 18	produced from?
	Bone Spring.
	MR. NUTTER: Bone Spring.
Q	Let's go to Exhibit Number Three, Mr. Par

Section 18?

3

10

11

12.

12

14 15

16

17

19 20

21

22

23

24

ton, and have you identify that for mo.

Exhibit Number Three is a producing field map. BTA's well, Bell Lake Well No. 1, is indicated by the red dot.

The Mid Dell Lake Gas Field is located one mile south of BTA's Bell Lake No. 1. The field made 900million cubic feet of gas from one well, which is now plugged.

The Bell Lake North Gas Devonian Field has produced 23.9 Bcf from one well. It is presently making 1.7-million cubic feet of gas per day, plus 780 barrels of water per day.

Taking Exhibit Three, would you identify, then, for me which of these Devonian pools are spaced on 640 acres?

Ukay. The Bell Lake South Gas Devonian Field is located 3-1/2 miles to the south of BTA's well. It is an abandoned field. The field made a combined cumulative of 17.8 Bcf from two wells which are now plugged.

The Antelope Ridge Gas Devonian Field is located 3-1/2 miles to the southeast and is currently producing two wells and one well has been plugged in that field. The three wells have made a combined cumulative of 29.1 Bof as of April, 1980. The two wells presently average 550 Mcf per day, plus 67 barrels of water per day, and both of these fields are on 640-acre spacing.

..7

10

11

12

13

14

15

16

17

19

20

21

22

24

Q. All right, let's go back to Exhibit Number
Two for a couple questions.

How have you determined what acreage ought to be included within the Bell Lake-Devonian Pool?

All right. The limits are defined by the gas/water contacts and by the fault to the east and the fault to the south of our well.

Q How did you determine the existance of those faults?

A. By seismic.

Q Okay.

The gas/water contacts were determined by tests performed on the wells both north and south of BTA's well, which I will get into later.

Is Section 18 controlled entirely by BTA
Oil Producers?

A. Yes. We have the entire 640-acre. We have partners in the drilling of that well.

Q That 640-acre section is available for dedication to one well?

A Yes.

And what is the ownership situation for the Continental well in Section 6?

A. That's in the Bell Lake Unit and I'm sure there are a number of people within that unit.

SALLY W. BOYD, C.8 Rt. 1 Box 193-8 Santa Fe, New Mexico 87301 Phone (305) 455-7409
MLLY W. BOYD, C.S. Rt. 1 Box 193-8 Santa Fe, New Mexico 87501 Fhore (505) 455-7439 51
¥ . \$5
W. BOYD, Rt. I Box 193-B Fe, New Mexico Box (505) 455-74
F 444
∑ ⊼ 🕏 🌣
3 3 3 3 2 12
Z (2
≥ : ; ; ; ;
N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
≻ ⊲£ ₁₃
→ % ~ 19
- 3
14
4.
and the second
16
17
17
•
19
79
100 (100 (100 (100 (100 (100 (100 (100
20
 .
21
21
41
for a service of the con-
22
23

All right. Show me what indicates the

Okay.

-- limits of the Bell Lake Unit --

Yes.

-- operated by Continental.

There are nine sections within the unit, shown by the dashed dark line. This is north of BTA's well, in Section 18.

All right, sir, let's go to your Exhibit; Ű. the cross section. That's Exhibit Number Four.

Exhibit Number Four is a cross section showing the three wells in the area, shown by -- shown by the red line in the structure map, running from north to south, and the cross section runs from west to east. The line of section between the wells is shown by from A to A'. The top of the Devonian is correlated across Section, and the gas/water contact is shown as a black horizontal line at -11,350 to the north and shown in red at -11,265 to the south A fault is shown separating the well to the south. That would be the Continental Bell Lake No. 10.

The gas/water contact in the Bell Lake North Field is determined by test results on the Continental Bell Lake Well No. 6 in Section 6.

The Devonian was perforated in this well at separate intervals from 14,568, 14,829, as shown in green

The lowermost water-free drill stem test was made at an interval of 14,747 to 14,835, recovering gas to surface at a rate of 5.7-million cubic feet of gas per day, plus two barrels of mud, and three barrels of distillate.

This well was completed in 1959 with a calculated open flow of 30.5-Million cubic feet of gas per day, plus 36 barrels of distillate.

In 1971 a through tubing bridge plug w set at 14,750. A separate gas/water contact in the Mid Rell Lake Field to the south is determined by test results on the Continental Bell Lake Well NO. 10 in Section 19.

Two drill stem tests were run with both recovering water. The Lowermost drill stem test from 14.820 to 14,890 recovered 890 feet of gas cut mud, plus 2540 feet of gas-cut sulphur water.

The second drill stem test from 14,728 to 14,890 recovered 211 Mcf per day, plus 2220 feet of highly gas-cut sulphur water.

The Devenian was perferated from 14,747 to 14,811 and acidized with 15,000 gallons. This well was completed flowing 3.2-million cubic feet of gas per day, plus 160 barrels of water per day, in March, 1965. It was plugged in December, 1974.

The BTA Bell Lake Well No. 1 in the cant

17

11

12

13

17

21

22

23

24

of the cross section was arilled to total depth of 14,727. The lowermost drill stem test covered the entire Devonian formation and was -- that was penetrated, and recovered gas at 169 Mcf per day, plus 3000 feet of water blanket, and 926 feet of drilling fluid.

The Devonian was perforated from 14,660 to 14,708, and acidized with 10,000 gallons -- or 300 gallons It flowed Mcf per day. An additional acid treatment was made with 10,000 gallons and the well was completed flowing 4.8million cubic feet a day, plus 85 barrels of load water in 1980, May of 1980.

The well is currently being worked on. The tubing is currently being worked on but last production was 4.8-million cubic feet a day, plus 12 barrels of condensate per day and 2 barrels of water per day.

Based upon your study of the geology, Mr. Payton, do you have an opinion as to whether or not one well can adequately and effectively develop a 640-acre spacing unit?

Yes, I believe so.

Were Exhibits One through Four prepared by you or compiled under your direction and supervision?

Yes, they were compiled by myself and Steve Salmon.

In your opinion, Mr. Payton, will appre

13

17

21

And your well wasn't drilled any deeper in the Devonian then, was it?

That's right.

Q. And you perforated almost down to your then.

One foot above the TD, I believe.

Why wasn't the well drilled any further

into the Devonian?

In your opinion will approval of this application avoid the drilling of unnocossary wells?

of this application be in the best interests of conservation

Yes, it will.

prevention of waste, and the protection of correlative rights

Yes.

MR. KELLAHIN: That concludes our examination of Mr. Payton.

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Payton, it would appear from the cros section, Exhibit Number Four; that your well is perforated in the uppermost portion of the Devonian only and that producing interval would be the equivalent of the top two sections in the Bell Lake No. 6, is that it?

Yes.

LV W. BOYD, C.S.R. Rt. 1 Bot 193-B otte Pc, New Mexico 57591 Phone (505) 435-7409 7

11

.12

13

15

16

17

21

22

23

We were concerned about the gas/water contact. We wanted to stay as high above it as we could because the offset wells had been producing for a number of years and that was the main reason, just for staying out of the water.

Q Well, it would appear that one of the better zones, according to DST's in the Bell Lake No. 6, was this interval down at about a -11,300, and you missed that by 300 or 400 feet.

A. That's right.

Q Do you have reason to believe the gas/ water contact has moved in this structure?

A. Yes, we believe it has. The original gas, water contact was at -11,350. We took that from the bottom perfs, and since then a bridge plug has been set above that point and it's hard to define an exact gas/water contact in that well, but it has moved up since original completion.

Q Well, now, was the purpose of this workover in 1971, where they put the tubing bridge plug in at
14,750, was the purpose of that to come up above the water,
Gas/water contact?

A I would assume so.

Q. Had this well started making considerable water?

I don't have the production. Steve Salma

will present that, but yes, it had been making water.

And it originally hadn't.

It was completed water-free and it did start making water, yes.

And so to stay away from that water you just drilled into the top of the Devonian and stopped.

ïes.

Now this other well over here on the cross section, I guess is immaterial because it's on the oth side of the fault, anyway, but apparently it was just completed in the uppermost portion of the Devonian, also.

That's correct.

And it was abandoned with a very low cumulative recovery.

That's right.

Less than a billion.

MR. NUTTER: Are there any further ques tions of the witness? He may be excused.

STEVE SALMON

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

20

11

12

13

14

- 15

17

18

SALLY W. BOYD, C.S.F Rt. 1:Box 193-B Santa Fc, New Mexico 87301 Phone (205) 455-7470

11

12

15

17

21

22

23

24

Mr. Salmon, would you please state your name, by whom you're employed, and in what capacity?

A My name is Steve Salmon. I'm employed, and have been employed, by BTA Oil Producers as a petroleum engineer for the last nine years.

Have you previously testified before the Division as a petroleum engineer?

A. Yes, I have.

And pursuant to your employment by BTA as a petroleum engineer have you made a study of and prepared certain exhibits of this application?

a Yes, I have.

MR. KELLAHIN: We tender Mr. Salmon as an expert petroleum engineer.

MR. NUTTER: Mr. Salmon is qualified.

Mr. Salmon would you turn to what we've marked as Applicant Exhibit Number Five and identify that exhibit for us?

A. Yes. Exhibit Number Five is a rate/time producing curve for the Continental Bell Lake Unit 2 Well No. 6. The gas and water rate scale is on the lefthand side of the page. This is a log scale on the lefthand side. The time scale going from 1961 through 1980 is on the bottom of the page. The solid curve is -- represents the gas production.

You'll notice the water production only goes back through 1974. The well was producing water prior to this but this data was compiled from the New Mexico Oil and Gas Engineering Committee Annual Report, and prior to 1974 water production was not carried in the annual report of yas wells.

The Continental well started producing, as shown by the graph, in 1961, and in March of 1980 was still producing 53,385 Mcf per month, which would be 1.7-million cubic feet, or MMCF, per day.

It was also producing in March 24,180 barrels of water, or on a daily basis this would be 780 barrels per day.

Exhibit Six, I'd like to go ahead and mention at this time, is a tabular backup to the graph, Exhibit Five. And the cumulative production is shown on the last page of this exhibit, Exhibit Six.

Mr. Salmon, what's the drive mechanism in this reservoir?

This reservoir appears to be essentially a waterdrive. As our geological witness testified, it was initially completed water-free, with the gas/water contact at -11,350 feet.

After this time it started making water and did have the through tubing bridge plug set, as shown

12

13

15

16

17

18

19

20

10 11

12 13

15

16

14

17

19

20 21

22

23

on our cross section.

In discussing the well with the Continenta engineer in Hobbs, he didn't have a number for what the well was making prior to the bridge plug set or after, but he did find a memo in their file that showed that after setting the bridge plug they hoped to obtain a water production of 200 barrels per day or less, so I assume it was making substantially more than this prior to setting the bridge plug.

You'll notice on the --

MR. NUTTER: What time of 19 -- that was

set in 1971?

Yes, it was set in 1971 and, again, he wouldn't -- he couldn't find an exact date in their files, except that it was set, but I assume it would be in September and October when the gas production of the well was down. It looks like it was down part of those months. But looking at the gas production curve, you can see very little effect from the decline rate of the gas production due to setting that bridge plug.

MR. NUTTER: It didn't change the gas production at all.

Right. So, personally, just based on the fact it didn't change the gas production, I doubt if it was very effective in shutting off the water. But, like I say, I have no data on what the water production was before LV W. BOYD, C.S.R Rt. 1 Box 199-B nta Fe, New Memico 87301 Phone (2013) 455-7-2400 2

7

10

11

12

13

14

15

17

21

22

23

we11?

and after, so I can't say that conclusively.

What was the original pressure in the reservoir, Mr. Salmon?

A The original reservoir pressure was 6400 psi. Continental is not required to report annual shut-in tubing pressure, but again in discussing this well with the Continental engineer, he found a memo in their file where the well was shutin about four years ago, and the memo said that the shutin tubing pressure indicated a bottom hole pressure in the range of 6000 to 6200 psi.

Q When was your BTA well drilled?

A Well, we completed it in June of 1980.

Q And what was the initial pressure on that

A The initial shutin tubing pressure, based on 181-hour shut-in after just a very small flow period, was 4630 psi. This yielded a calculated bottom hole pressure of 6072 psi.

Q What conclusion do you reach from the pressure information?

A Well, we feel that this is an indication of some pressure depletion due to the existing producing well.

A strictly depletion drive reservoir of this size would show a substantially greater drop in this than the 300 to 400 pell pressure drop we've seen, though this confirms our -- the

SALLY W. BOYD, C.S.
R. I Box 193-B
Senta Pt. New Mexico 57301
Phone (593) 455-7406

11

12

13

14

15

17

18

19

20

21

22

23

24

production on the well that it's essentially a waterdrive reservoir with possibly some pressure depletion, though the pressure depletion is very minor.

Have you made any pressure -- I'm sorry
any reservoir estimates for this Continental No. 2 Well -No. 6 Well?

A. Yes.

Q Is that Exhibit Number Seven?

A Right. Before we get to that, though, I attempted to extrapolate the rate/time graph that was Exhibit

Number Five to obtain a reserve — a decline curve reserve

for this well; however, the curve is curving up, which indicates that any extrapolation made from that curve would probably be on the low side, because each year, as it flattened

out more, you'd get a higher reserve number for the gas.

MR. NUTTER: You've got infinite reserve

A. Well, we made another exhibit to take can of this. This is our Exhibit Number Six, to get rid of a -or to get a curve that -- a plot that didn't curve. We plotted a rate/cum curve.

Q And that is Exhibit Number Seven?

A. Yes. Okay, this is Exhibit Seven. Okay, this is Exhibit Seven.

As you can see, the points plotted on this curve form a pretty good straight line. These points

are the year end rates for each year, and we tried to take December of each year, but if December was abnormal, we took what a normal rate for December would have been for Cach year.

of 1980.

Extending this line out to a rate of 10-million cubic feet per month, which would figur out to just over 300 Mcf per day, you get -- you would come up with a reserve of 52 Bcf for the well.

MR. NUTTER: And what rate of production would that have been at?

At the 52 Bcf it would be 10-million cubic feet per month, or that would be approximately -- that would be 10 MMCF par month, which would figure out to be approximately 330 Mcf per day.

MR. NUTTER: Okay.

Based upon your study, Mr. Salmon, do you have an opinion as to the drainage area for the Continental well?

Yes, I do.

A pore volume reserve, based on the structure map, which was presented as Exhibit Two, and the log calculations based on the Continental Bell Lake Unit 2 Well No. 6, indicates a gas in place of 82 Rof. The 52 Bor

11

12

15

17

21

22

reserves from the rate/cum extrapolation would yield = 63
percent recovery factor for the total field, and this would
be a reasonable recovery factor for a waterdrive reservoir.
Therefor, we feel like the well is draining essentially the

Q When you speak of the whole reservoir, what area are you talking about?

A. Okay, if you'll refer to Exhibit Two, we're talking about all of the area bounded by the -11,350 foot gas/water contact and the fault, which are essentially Sections 6, 7, and 19 of Township 23 South, Range 34 East, and some minor peripheral area outside of that.

MR. NUTTER: Now that's the area you say would have the 82 billion cubic feet of gas in place?

Now, in total areawise, this would amount to 3272 acres, or it's roughly equivalent to 5.1 sections.

Q In your opinion, then, Mr. Salmon, could one well in this particular pool have the potential to drain and develop a 640-acre spacing and proration unit?

A. Yes, I feel like it very definitely would.

Q In your opinion will the changing of the pool rules to provide for 640-acre spacing avoid the drilling of unnecessary wells?

12

13

14

16

17

19

20

21

22

Yes, I think it will.

In your opinion will the approval of this application be in the best interests of conservation, prevent of waste, and the protection of correlative rights?

Were Exhibits Five, Six, and Seven pro pared by you or compiled under your direction and supervision

Yes. They were -- Steve Payton and I together prepared the exhibits for the hearing and we kind of intermixed our work on the various exhibits.

MR. KELLAHIN: That concludes our examination. We tender Exhibits One through Seven.

MR. NUTTER: Exhibits One through Seven will be admitted in evidence.

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Salmon, Continental has been sitting there with that well since 1961 and has produced almost 24 billion cubic feet out of it. Do you know whether they have any plans at this time to do any additional drilling in Section 7 new that you've brought your well in in 18?

Well, we approached them requesting a farmout on Section 7. They did, as a matter of interest, Continental did have the acreage on the south half of Section

LY W. BOYD, C.S.R.
R. 1 Box 193-8
mar R. New Moxico 87501

12

13

16

17

18

19

20

21

22

23

yet?

18 and we do have a farmout from them on the south half of Section 18.

In discussing this with them, we requested armout from them on Section 7. They said that they wouldn't give us a farmout because it was tied up with the drilling unit, and they liked the drilling possibilities on it.

Now, we, as far as I know, we never -we have not asked them pointblank, are you going to develop
it. I don't know what their gas price is or anything of this
nature, and it could be that this could interfere with their
drilling it.

If it was our lease, we'd recommend drilling, but Continental, I don't know. I can't say for sure.

Q What did your No. 1 Well in Section 18 cost?

A. It cost approximately \$2.4 million.

Now, our gas price on that well is \$2.25

an Mcf.

Q And your well currently makes -- or on a test made about 4-1/2 million a day, is that it?

A This is correct, yes.

Q Do you have a connection for your well

A Yes. It is connected to Transwestern

ILLY W. BOYD, C.S.R Rt. 1 Box 193-B Santa Ps. Now Mexico 87501 Phone (505) 455-7409. 10

11

12

15

16

17

21

22

and prior to developing a tubing leak, was on production for several days.

And you have it out now making repairs?

Yes. We have pulled the tubing and found some holes in the tubing and now we're going to run the tubing back in.

Q How long had it produced?

A. It went on production -- actually it went on May the 28th, so actually it went on production in May,

I guess I should say; went on production May the 28th and produced up until about three to four days ago.

Q You had about a month's production?

A So it's about a month's production, yes.

Q. Did it show any characteristics change or anything during that time?

A No, it was producing fairly stable during that month. The only thing we did notice was initially we were making some load water. This load water has disappeared and it was apparently at least partially due to the tubing leak, and then water that we had lost while we were completing the well.

Q Now this 4-1/2 million a day, is that the amount it will produce into the pipeline?

A. Yes. In fact, the tubing pressure on that well is substantiall higher than pipeline pressure. T

pipeline pressure is roughly 900 pounds. The flowing tubing pressure on the latest test we have available, which was just before we shut it in for the work, was 3950 psi, and the tubing pressure while we had been flowing it has increased.

It did increase as the water, you know, decreased.

Q That's flowing tubing pressure.

A That's flowing tubing pressure.

MR. NUTTER: Are there any further questions of Mr. Salmon? He may be excused.

Do you have anything further, Mr. Kellahi

MP. KELLAHIN: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 6962?

We'll take the case under advisement.

(Hearing concluded.)

ALLY W. BOYD, C.S.
Rt. 1 Box 193-B
Senta Fe, New Mexico 8/391
Phone (305) 435-7409

1

16

12

13

18

17

20

21

--

24

C Lane

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that
the foregoing Transcript of Hearing before the Cil Conservation Division was reported by me; that the said transcript is
a full, true, and correct record of the hearing, prepared by
me to the best of my ability.

MLLY W. BOYD, C.,
Rt. 1 Box 193-B
Senta Fc, New Mexico 5750
Phose (593) 444-740

3

15

:6

•/

ا الاستان الاستان

22

23

製作を

- CASE 6958: Application of Kenai Oil and Gas, Inc. for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of undesignated Seven Rivers and Artesia Queen-Grayburg-San Andres production in the wellbore of its Gulf State Well No. 1 located in Unit R of Section 36, and its Cobb Federal Well No. 2 located in Unit R of Section 22, both in Township 18 South, Range 27 East, Artesia Pool. Applicant further seeks an administrative procedure whereby similar commingling could be approved for other wells to be drilled in the NE/4 and S/2 NW/4 of said Section 22.
- Application of Great Western Drilling Company for compulsory pooling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the S/2 of Section 19, Township 18 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in deiling said well.
- CASE 6960: Application of Bass Enterprises Production Company for compulsory pooling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests down to and including the Strawn formation underlying the S/2 SE/4 of Section 13, Township 16 South, Range 36

 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 6950: (Continued from June 25, 1980, Examiner Hearing)

Application of Bass Enterprises Production Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 660 feet from the North line and 1980 feet from the East line of Section 4, Township 25 South, Runge 31 East, the E/2 of said Section 4 to be dedicated to the well.

- CASE 6961: Application of Conoco Inc. for a dual completion and unorthodox well location, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Meyer A-29 Well

 No. 11 to be drilled at an unorthodox location 990 feet from the North line and 660 feet from the

 East line of Section 29, Township 22 South, Range 36 East, to produce gas from the Langley-Devonian

 and -Ellenburger Pools thru parallel strings of tubing, the E/2 of said Section 29 to be dedicated

 to the well.
- CASE 6962: Application of BTA Oil Producers for special pool rules and pool extension, Lea County, New Maxico.

 Applicant, in the above-styled cause, seeks the promulgation of Special Pool Rules for the North

 Bell Lake-Devonian Gas Pool to provide for 640-acre spacing and specified well locations. Applicant also seeks the extension of said pool to include all of Sections 6, 7, and 18, Township 23

 South, Range 34 East.
- CASE 6896: (Continued from June 25, 1980, Examiner Hearing)

Application of John E. Schalk for a non-standard gas proration unit and an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard Blanco Mesaverde gas proration unit comprising the NE/4 of Section 8, Township 25 North, Range 3 West, to be dedicated to his Gulf Well No. 2 to be drilled at an unorthodox location 1925 feet from the North line and 790 feet from the East line of said Section 8.

- CASE 6965: Application of Supron Energy Corporation for a non-standard gas provation unit, Rio Arriba County, New Mexico. Applicant; in the above-styled cause, seeks approval of a 160-acre non-standard Mesaverde and Dakota gas provation unit comprising the SE/4 of Section 8, Township 25 North, Range 3 West, to be dedicated to a well to be drilled at a standard location thereon.
- CASE 6966: Application of Resding & Bates Petroteum Co. for compulsory pooling; Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup and Dakota formations underlying the NE/4 of Section 17, Township 24 North, Range 3 West, Chacon Field, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 6942: (Continued from June 25, 1980, Examiner Hearing)

Application of Benson-Montin-Greer Drilling Corporation for amendment of Order No. R-2565-B, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Rule 2 of the Special Pool Rules for the West Puerto Chiquito-Mancos Oil Pool as promulgated by Order No. R-2565-B to provide that all 320-acre spacing and provation units in said pool would comprise either the W/2 or the E/2 of a governmental section, provided however, that one injection well would have dedicated thereto the N/2 of Section 1, Township 24 North, Range 1 Wast, and also that the short 400-acre sections on the South side of Township 27 North, Range 1 Wast, would each comprise a single spacing unit.

EXHIBIT NO. 1 CASE 6962 SUMMARY OF APPLICATION BELL LAKE NORTH (DEVONTAN)

- 1. Extension of the Bell Lake Devonian, North (Gas)
 Pool to include sections 6, 7, and 18 of T-23-S,
 R-34-E, Lea County, New Mexico.
- 2. The promulgation of spcial pool rules to include 640 acre spacing and well locations within a spacing unit no closer than 1,650 feet from the outer boundary lines, nor closer than 330 feet from a governmental quarter-quarter section.

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION

STA EXHIBIT NO. 1

1.....

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION BELL LAKE DEVONIAN, NORTH (GAS) LEA COUNTY, NEW MEXCIO

YEAR	MONTH	MCFPM	BCPM	BWPM*
1961	Jan.			આવે એ એવ્લાના કે કે પૈકેશ હતા હતા હતા હતા હતા હતા છે.
	řeb. Mar.			
	Apr.	and a superior of the second s	รที่ คากรู้สามเพียง และสร้าง และสร้างสร้าง เป็นเกิดใหม่	o antonio la colonia del como de sede colonia de la sesente de la sede colonia de la sede de la sede de la sed La colonia de la colonia d
	May			
	June	in de la composição de la La composição de la compo		and the second of the second section which is the second section of the second section of the second section of the second section section is the second section of the second section
	July			in the second second of the second se
	Aug.	6,067		and the second of the second o
	Sep.	50,262	128	
	Oct. Nov.	46,674	143	
	Dec.	67,489 80,180	182 102	
1961 TO		250,672	555	
2,01 10.		250,072	,	
-020				
1962	Jan. Feb.	112,482	176	
	Mar.	91,587 138,036	292 361	
	Apr.	48,716	361 140	
	May	34,288	97	and the company of th
	June	19,320	81	그는 일부가 사람들을 가는
	July	39,874	73	
	Aug.		62	
	Sep.			
	Oct.			
	Nov.	27,709	47	
1962 TOT	Dec.	$\frac{127,610}{639,622}$	402 1,731	
1702 101			1,/31	
1963	Jan.	1,497	20	
1707	Feb.		-	
	Mar.			
	Apr.			
	May		기술하철 그리다	
	June	1,026		
	July	51,164	40	
	Aug.	40,114	7	
Section of the section	Sep. Oct.	9,333		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nov.	54,674 42,425	36 3	
er Tiladi — Kabasa 20	Dec.	<u>59,652</u>	15	
1963 TOTA		259,885	$\frac{15}{121}$	
		er in die geschiede Stade datum geschiede in die der der der der der der der der der de	g illing a Sel enger (greek bij geber 1970 - Herring Selenger	
1964	Jan.	78,058		
1704	Feb.	84,047	56	
	Mar.	74,629	186	
Paralanting m	Apr.	141,389	371	
	May	111,635	195	
	June	211,312	620	
	July	97,007	239	
	Aug.	155,676	435	20°
	Sep.	1347604	351	
	Oct. Nov.	139,099 46,237	371 117	
	Dec.	23,583	117 52	
1.50 (2.50)				
1964 TOTA	LS	1,297,276	2,993	

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION

BTA EXHIBIT NO. 6 CASE NO. 6962

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION

BELL LAKE DEVONIAN, NORTH (GAS)
LEA COUNTY, NEW MEXICO

4.00 j		erine Harristonia Harristonia			
tale :	YEAR	MONTH	MCFPM	<u>BCPM</u>	BWPM*
	1965	Jan.	73,101	195	ing a salah Properties
Access Control			and the control of the second		(1), (1), (1), (1), (1), (1), (1), (1),
	And the second s	rut.	103,421	263	
	The second secon	Apr.	54,230	106	
	Admira Salar i Salar II da Salar da Sa	May	102,134	260	
Frida 1974 State Liberton Carata Miller Frid Walter Britania		June July	91,647 16,643	225 40	
		Aug.	75,484	161	
		Sep.	101,493	76	×3
1.20 1.20		Oct.	77,437	240	
		Nov.	164,484	432	
CISB C. A. S. L. Colonia Memory Mr. C. P. 77		Dec.	<u>223,945</u>	<u> 287</u>	avalvanijamie, š
	1965 TOT.	ALS	1,146,460	2,451	
		ya da da da da a a a a a a a a a	A A A A A A A A A A A A A A A A A A A		no la
Value	1966	Jan.	265,697	488	
		Feb.	206,814	565	
		Mar.	216,727	586	
		Apr.	204,212	360	
6		May	210,630	333	
		June	178,757	508	
		July Aug.	153,277 9 197,115	219	
	modeling to the Miles of the	Sep.	228,956	.569 643	
		Oct.	227,302	558	
		Nov.	280,417	537	
		Dec.	294,074	784	
September	1966 TOTA	LS	2,663,978	6,150	
The state of the s	1967	Jan.	272,747	697	Section (1971), agint, a cilindra Light (1984) new Light (1971). L
		Feb.	256,392	724	
		Mar. •	277,458	720	
		Apr.	225,412	577	
	un en journale d'un transfer de la communité d L'angles de la communité de la	May	146,865	403	
		June	102,932	274	
		July	165,134	380	
		Aug.	227,977	562	
		Sep. Oct.	245,484 244,345	656 617	
		Nov.	230,484	570	
4	STATE SERVICES	Dec.	231,053	547	
	1967 TOTA		2,626,283	537 6,717	
16	1968	Jan.	240,052	612	
		Feb.	238,664	468	
		Mar.	252,634	617	
	abedia e indença i a	Apr.	181,875	446	
		May	201,534	379	
		June	185,077	323	
		July	201,489	505	
		Aug.	191,710 193,939	464	
.00.0 000 M/m		Sep. Oct.	213,493	410 ×	
Çeriyê de di		Nov.	202,769	464	
1	and a second	Dec.	- 193,508	412	
	1968 TOTAL		2,496,744	5,551	
April 1 Comment		and the second of the second			

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION BELL LAKE DEVONIAN, NORTH (GAS) LEA COUNTY, NEW MEXICO

YEAR	MONTH	<u>NCFPM</u>	<u>BCPM</u>	BWPM*
1969	Jan•	193,804	419	
	P2 67	159,918		ulli vym stalenim programa. Pri vym stalenim prima pri povykrije.
· di ayan bilangak.	- Mar	162,145	480	The second secon
	Apr.	159,057		en film and a second and a second
	May	167,474	625	
la sessa label lea sono per l'	June	52.315		over de Reimanna (n. 1811). Eine
er e	July	167,738	404	and the second of the second o
	Aug. Sep.	157,313 168,343	340 382	
	Oct.	168,044	383	
	Nov.	159,779	262	Lagrania de la compaña de la c
	Dec.	164,243	7	
1969 TO		1,880,173	4,022	tang di kacamatan di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn
1970	Jan.	162,637	308	
	Feb.	153,587	446	And the last
	Mar.	165,748		
	Apr.	149,643	131	
for the Control of the second	May	147,165	291	i ku sani basal sa sakabatan i Katabatan
	June	148,672	219	
	July	99,683	176	
	Aug.	63,197	91	
kidi jejo ja jaugas liberi sajus j	Sep.	154.181	262	Albert Bertherland (Lie
	Oct.	154,957	311	
	Nov.	134,253	117	
	Dec.	152,210	200	
1970 TO	(ALS : all sale same and all sale : all :	1,685,933	2,552	
1971	Jan	148,733	284	
	Feb.	129,235	250	
	Mar.	139,257	300	
	Apr.	130,240	288	
	Hay June	136,167	256	
	July	120,110 180,308	214 258	
	Aug.	139 014	263	
and the second	Sep.	32,353 W	never 13	
	Oct.	68,628 W	301	
	Nov.	147,914	323	
	Dec.	128,214	275	
1971 TOT		1,500,173	$\frac{3,025}{3}$	
1972	Jan.	121,544	289	
	Feb.	112,834	201	
	Mar.	134,174	266	
	Apr.	122,740	256	
	May	120,605	248	
	June	109,762	110	
	July	89,300	175	
Australia de la	Aug.	94,126	220	
	Sep.	84,902	136	
	Oct.	94,725	145	
	Nov. Dec.	84,900	33	
1972 TOTA		$\frac{107,569}{1,277,181}$	$\frac{233}{2,312}$	
17/2 101/	· ·	1,2//,101	6,316	

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION LL LAKE DEVONIAN, NORTH (CAS) LEA COUNTY, NEW MEXICO

YEAR	MONTH	<u>MCFPM</u>	<u>BCPM</u>	BWPM*
1973	Jan.	88,701	121	
المناسلين المرادية والمرادية	Feb.	55,665	57	
ZOTOS PARAGRADA DE SANT	A SALE OF THE SALE	THE PROPERTY OF STREET		
	Apr.	114,951		. 8 2 11 11 12 12 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
and a salah di kacamatan Tanggar	May	113,655	a para di kacamatan kanggal kacamatan ka	
. = 4. X	June	105,102	99	and the second second
بشيارا أيومال فأعلوا والسيا	July	111,292	211	
	Aug.	108,803	219	
	Sep.	93,788	180	
	Oct.	112,295	235	
	Nov.	94,267	234	
	Dec.	106,158	137	
1973 TO	TALS	1,218,042	1,907	
	e e			
1974	Jan.	74,939	121	12,604
	Feb.	87,603	181	
	Mar.	96,885	201	18,854
	Apr.	89,169	173	20,938
	May	89,636	194	18,021
	June	77,625	16	20,208
	July	89,229	157	1,667
	Aug.	82,030		16,354
	Sep.	87,661	17	8,021
Basical Arabida	Oct.			
	Nov.	84,130 57,775	. 258	
g	Dec.			26,875
1974 TO		71,364 988,046	139 1,517	14,479
		900,040	1,517	158,021
1975	Jan.	74,264		
	Feb.	82 , 856	12	1,250
	Mar.		173	18,021
e di ji ka ba	Apr.	93,509	166	17,292
ti i i kalendari ya kili kili kili kili kili kili kili kil	Mey	81,935	164	17,083
	June	82,402	167	17,396
	July	79,512	173	18,021
		79,339	190	19,792
	Aug.	74,638	149	15,521
	Sep.	64,595	146	15,208
	Oct.	68,103	147	15,313
	Nov.	69,289	132	13,750
1975 TOT	Dec.	71,483	. 145	<u> 15,104</u>
1973 1011	nido y la compania de la compania d La compania de la co	921,92 <u>5</u>	1,764	183,751
1976	Jan.			2.3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1970	Feb.	69,984	140	14,583
500	The state of the s	61,866	130	13,542
	Mar.	59,822	93	9,688
	Apr.	65,140	131	13,646
	May	50,470	74	7,708
en ar en	June	59,171	212	22,083
	July	52,806	8	833
	Aug.	65,004	101	10,521
gul behilb.	Sep.	78 742	148	15,417
	Oct.	74,610	93	9,687
	Nov.	64,128	134	13,958
	Dec.	66,209	<u>159</u>	16,563
1976 TOTA	T9	767,952	1,423	148,229

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION BELL LAKE DEVONIAN. NORTH (GAS) LEA COUNTY, NEW MEXICO

YEAR	MONTH	<u>MCFPM</u>	<u>BCPM</u>	BWPM*
1977	Jan.	65,447	89	9,271
	Feb.	65,985	130	14,768
الماعد بدأ كلاسك فدسيا توجد والهوروفون		72,573	ata tatan in 18 ci anata - Salata at Salatan Salatan Salatan an anta a dalam	13,748
ing the state of partial and the state	Apr.	60,665	89	10,110
	May	74,785	152	17:153
	June	67,494	133	15,109
	July	71,403	158	17,949
	Atig.	67,003	128	14,541
	Sep.	70,052	132	14,995
	Oct.	69,720		
	Nov.	63,790	28	3,181
	Dec.	58,804	162	18,403
1977 TOT	ALS	807,721	1,322	149,226
1978				and Shine Marketin
17/0	Jan.	56,408	121	13,746
of the street of	Feb.	56,411	126	14,314
eregija entregalisation	Mar.	62,324	172	19,539
	Apr.	61,342	112	12,723
	May	60,892	127	14,427
	June	59,841	140	15,904
	July	62,319	124	14,086
	Aug.	61,098	157	17,835
Raffar and Fit	Sep. Oct.	61,701	138	15,677
	Nov.	59,134	135	15,336
	Dec.	56,464	134	15,222
1978 TOTA		$\frac{51,730}{709,664}$	$\frac{118}{1,604}$	13,405 182,214
1979	Jan.	54,271	100	11,360
Prof. Date wells	Feb.	57,022	105	11,928
	Mar.	58,487	135	15,336
	Apr.	26,007	119	13,518
	May	61,415	141	16,018
destruction (Marchite State and Architecture)	June	56,508	119	13,518
	July	48,329	112	
	Aug.	48,292		
	Sep.	56,828	38	
	Oct.	55,802		
	Nov.	49,487	110	21,060
	Dec.	57;275	<u>131</u>	24,180
1979 TOTAL	ĹŜ	629,723	1,110	126,918
1980	Jan.	55,774	140	24,180
. 	Feb.	49,204	# 40	24,180
	Mar.	53,385	66	24,180
1980 TOTAL		158,363	206	48,360
CUMULATIVE	mana a salah dari Nasara	23,920,448	49,033	996,719

*BWPM figure unavailable before January, 1974.



5XHIBIT NO. 1 CASE 6962 SUMMARY OF APPLICATION BELL LAKE NORTH (DEVONIAN)

- 1. Extension of the Bell Lake Devonian, North (Gas) Pool to include sections 6, 7, and 18 of T-23-S, R-34-E, Lea County, New Mexico.
- 2. The promulgation of spcial pool rules to include 640 acre spacing and well locations within a spacing unit no closer than 1,650 feet from the outer boundary lines, nor closer than 330 feet from a governmental quarter-quarter section.

C.

Yet or

ราช (การที่สำรับสำรับสาร ใช้สารการการสุดสารสิติ เสียงสารการสุดสารสิติ

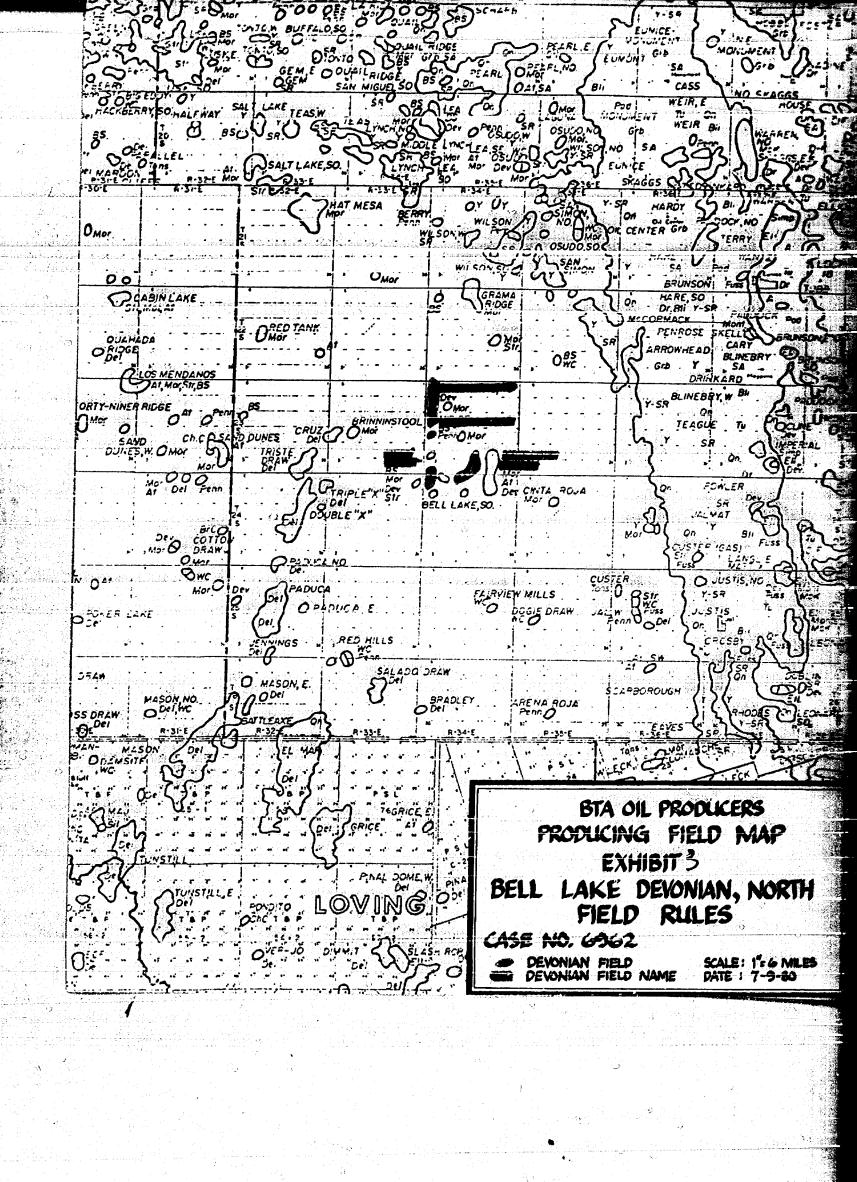


EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION BELL LAKE DEVONIAN, NORTH (GAS) LEA COUNTY, NEW MEXCIO

YEAR	MONTH	MCFPM	BCPM	
1961	Jan.		en e	
V. SLIBBOOK reredell	Feb.		Alternative of the second	<u>La Brasillata de la c</u>
Table	Mar.			
	Apr.			
t A to toget	May	an tagan da Albah da awal da		a laki di wasaka d
	June July	And the San Control of the Control o		للعبأ وأخياها عاد عاسا بعراتها
and the second s	Aug.	6,067		
	Sep.	50,262	128	
	Oct.	46,674	143	
	Nov.	67,489	182	
	Dec.	80,180	102	gegin af tas
1961 TO	TALS	250,672	555	
		Timo de Salada de Sa A transferio de Salada de Salad		
1962	Jan.	112,482	176	n ser ey ar jirliy Taran
	Feb.	91,587	292	
	Mar.	13 8, 036	361	
	Apr.	48,716	140	
	May	34,288	97	
	June	19,320	81	
	Ju1y	39,874	73	
	Aug.		62	ne. Diserbadiationer
	Sep. Oct.	Salamania (n. 1915). Alba (1914). Alba (1914). Alba (1914). Alba (1914).		
a The Adams	Nov.	27,709	47	
	Dec.	127,610	402	
1962 TOT		639,622	1,731	
1963	ii ilai a 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 19	n e dinasanali, as mesalik Tabu	20	
. 1903	Feb.	1,497	20	
na (a grada e	Mar.			
	Apr.			
g levalidadi.	May			
	June	1,026	-	
	July	51,164	40	
	Aug.	40,114	7	
	Sep.	9,333		
	Oct.	54,674	36	
	Nov,	42,425	3	
1963 TOT.	Dec.	<u>59,652</u> 259,885	15 121	
1703 101.	AUD		121	
	and the second of the first of the second of			
1964	Jan.	78,058		
	Feb.	84,0/,7	56	ing the second s
	Mar.	74,629	, 186	
	Apr.	. 141,389	371	
	May June	111,635 211,312	195 620	
	July	97,007	239	
	Aug	- 155,676	435	
	Sop.	134,604	351	en e
	Oct.	139,099	371	in the state
	Nov.	46,237	117	
	Dec.	23,583	52	
1964 TOTA	ILS .	1,297,276	2,993	

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION

BELL LAKE DEVONIAN, NORTH (GAS) LEA COUNTY, NEW MEXICO

YEAR	MONTH	<u>MCPPM</u>	ВСРМ	В₩РИ*
1.965	ring of ATAM size and And			iller gyger tilser planna av eller skreve sig i lide det Der gyger tilser planna av eller skreve sig i lide det
	Feb.	62,441	166	
eries. So Assaultani	Mar.	103,421	263	Albania del Carrella de La
	Apr.	54,230	106	Commence of the Commence of th
	May	102,134	260	أوريا مقاصا بباعم أأربكم
	June	91,647	225	
	July	16,643	40	
	Aug.	75,484	161	
	Sep.	101,493	76	
	Oct.	77,437	240	
	Nov.	164,484	432	
	Dec.	223,945	<u> 287</u>	
1965 TO	DTALS	1,146,460	2,451	
		n de deservir en gris de sistema. Organisa de significación de significación de significación de significación de significación de sistema de si	er i kanglada da erang mengelah dalam da. Banglada dan dalam dalam dalam dalam dalam da.	
1966	Jan.	265,697	488	and and the second of the seco
	Feb.	206,814	565	
	Mar.	216,727	586	
	Apr.	204,212	360	
	May	210,630	333	and Araba and the care
	June	178,757	508	
	July	153,277	219	
	Aug	197,115	569	
	Sep.	228,956	643	
	Oct.	227,302	558	
	Nov.	280,417	537	and the second of the second o
al languaga ana	Dec.	294,074	784	
1966 TO	TALS	2,663,978	6,150	
1967	Jan.	272,747	697	and the second of the first of the second and the second of the second of
	Feb.	256,392	724	
	Mar. •	277,458	720	
	Apr.	225,412	577	and the state of the state of
जे के विक्राहरू है।	May	146,865	403	
	June	102,932	275	
	July	165,134	380	
	Aug.	227,977	562	
an di Salah di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabup Kabupatèn Kabupatèn	Sep.	245,484	656	
	Oct.	244,345	617	and the second
	Nov.	230,484	570	angus ang grassa Pit California sa Angus ang
	Dec.	231,053	<u>537</u>	10
1967 TO	rals	2,626,283	6,717	
1968	Jan.	240,052	612	
	Feb.	238,664	468	
	Mar,	252,634	617	
	Apr.	181,875	446	
	May	201,534	379	1
	June	185,077	323	
	July	201,489	505	
. The Edition of the William of the Co.	Ailg'.	191,710	164 maria 164 m	หละ จะเล่าสมันที่ ใช้สามารักษาที่ ส่งนักการ
	Sep.	193,939	410	
	Oct.	213,493	451	
	Nov.	202,769	464	talia (Mar. 1954) (1964) Karangan
	Dec.	193,508	412	
1968 TOT		2,496,744	5,551	

EXHIBIT NO. CASE NO. 6962 PRODUCTION TABULATION BELL LAKE DEVONIAN, NORTH (GAS) LEA COUNTY, NEW MEXICO

YEAR	<u>MONTH</u>	MCFPM	<u>BCPM</u>	BWPM*
> 1969	Jan.	193,804	419	1. januari 1. januari 1. januari 1. januari
entre anno anno anno an la	rev.	A.A. ARIA (LES) (AN TONINSTANTANTANTANTANTANTANTANTANTANTANTANTANT	and the same of the second second • • • • • • • • • • • • • • • • • • •	g jiga Titor or un rum autum Philaimetrum gerap op Sitor van de March Bert en oer eer eeksteer in
للعود للمسامع فالمتاط فالمتاط الماقات	Mar.	162,145		หากกลาดสมระบบเล้า แก้ไม่ได้การแล้ว ได้เลียกัน
a de la companya de La companya de la co	Apr.	159:057	er e	والمنافعة والمعارف والمعارض والمعارض والمساورة
	May June	167,474 52,315	625	and the second s
	July	167,738	404	ina ny firitan'i Ny faritr'i N
and the second s	Aug.	157,313	340	
Mary Adams	Sep.	168,343	382	
A STATE OF THE STA	Oct.	168,044	383	
	Nov.	159,779	262	
1060 000	Dec.	164,243	, 200	
1969 TO	IALS	1,880,173	4,022	
1970	Jan.	162,637	308	
1370	Feb.	153,587	446	
	Mar.	165,748		
	Apr.	149,643	131	
	May	147,165	291	
	June	148,672	219	
A STATE OF THE STA	July	99,683	176	i di di dikeraa ya di walio wa Kanana manana manan
	Aug.	63,197		e da Menado de Annibrejo
	Sep. Oct.	154,181 154,957	262 311	
	Nov.	134,253	117	1. The state of th
	Dec.	152,210	200	
1970 TOT	e francisco de la companya della companya della companya de la companya della com	1,685,933	2,552	
1971	Jan.	148,733	284	
	Feb.	129,235	250	
	Mar.	139,257	300	
	Apr.	130,240	288	
	May June	136,167 120,110	256 214	
Madeka milia	J uly	120,110	258	Burgara da Barangara da Barangar Burgara da Barangara da Barangar
	Aug.	139,014	263	
	Sep.	32,353	13	
	OUE.	68,628	301	
	Nov.	147,914	323	
1971 TOTA	Dec.	128,214	275	
19/1 101		1,500,173	3,025	
1972	Jan.	121,544	289	
1	Feb.	112,834	201	udh Janos Albania (1984) e e
	Mar.	134,174	266	
	Apr.	122,740	256	Bur Breedham (
	May	120,605	248	
	June	109,762	110	
	July	89,300	175	
	Aug. Sep.	94,126 84,902	220	
	Oct.	94,725	136 145	
	Nov.	84,900	33	
	Dec.	107,569	233	
1972 TOTA		1,277,181	2,312	

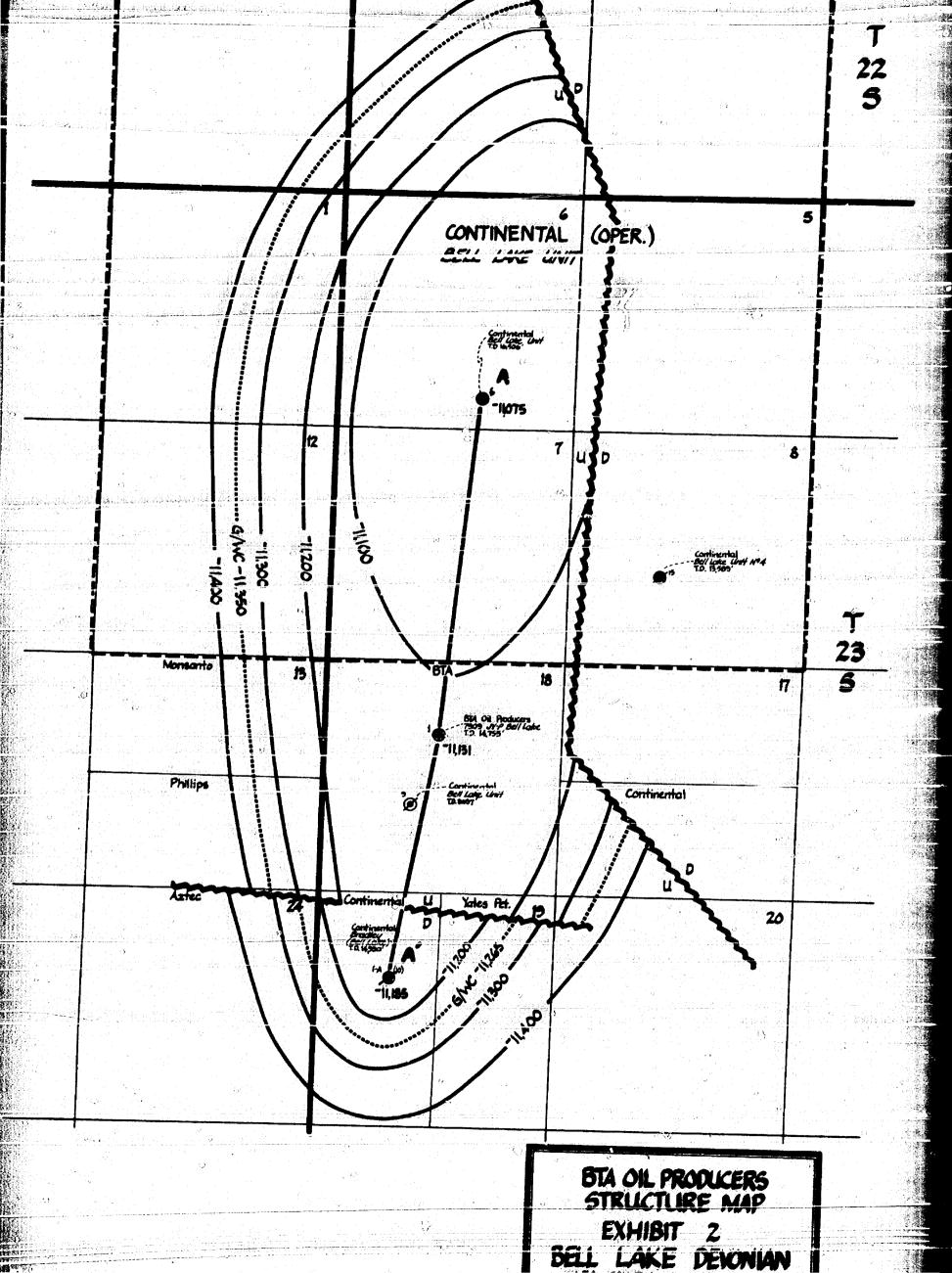
YEAR	MONTH	<u>MCFPM</u>	BCPM	BWPM*
1973	Jan.	88,701	121	
Alien - II. a Amaza	řeb.	55,665		ر. 19 در ولف و و ۱۹۹۵ و ۱۹۱۸ - ۱۹۵۸ در مطاوعت
	Mar.	113,303	427,	
2024	Apr.	114,951	155	أجور فرشاء وبالأنكيان فويه ويأتاني
يتوفق الاتوالي بالموافقة	June	113,655 105,192		444 Harby
	July	111,292	211	reservati iliani il Shine kerisaya ja ja alah di dababa da da sa da s Sa sana iliani ilian sa da
	Aug.	108,803	219	The second section of the second seco
	Sep.	93,788	180	
	Oct.	112,295	235	
	Nov.	94,267	234	the second se
ing and the second seco	Dec.	106,158	<u>137</u>	
1973 TC)TALS	1,218,042	1,907	
1974	Jan.			
13/4	Feb.	74,939		12,604
	Mar.	87,603 96,885	181 201	18,854
	Apr.	89,169	173	20,938
	May	89,636	194	18,021 20,203
	June	77,625	16	1,667
and on the late of the first Turn of the control of	July	89,229	157	16,354
	Aug.	82,030	77	8,021
To great the state of the state	Sep.	87,661		
	Oct.	84,130		on and the second of the secon
	Nov.	57,775	258	26,875
1974 TO	Dec.	71,364	$\frac{139}{1,517}$	14,479
12/4/30	1410	988,046	1,51/	158,021
1975	Jan.	74,264	12	1,250
	Fèb.	82,856	173	18,021
	Mar.	93,509	166	17,292
	Apr.	81,935	164	17,083
	May	82,402	167	17,396
	June	79,512	173	18,021
ا الحريان والموعدية <u>في الرائد الرائ</u>	July	79,339	190	19,792
	Aug. Sep.	74,638 64,595	149	15,52 <u>1</u>
	Oct.	68,103	146 147	15,208
	Nov.	69,289	132	15,313 13,750
	Dec.	71,483	145	15,104
1975 TOT		921,925	1,764	183,751
1976	Jan.			ini da
19/0	Feb.	69,984	140	14,583
	Mar.	61,866 59,822	130 93	13,542
	Apr.	65,140	131	9,688 13,646
	May	50,470	74	7,708
	June	59,171	212	22,083
	July	52,806	8	833
	Aug.	65,004	101	10,521
	Sep.	78,742	148	15,417
	Oct.	74,610	93	9,687
	Nov. Dec.	64,128	134	13,958
1976 TOTA		66,209 767,952	159 1 423	<u>16,563</u>
22,0 1012		101,734	1,423	148,229

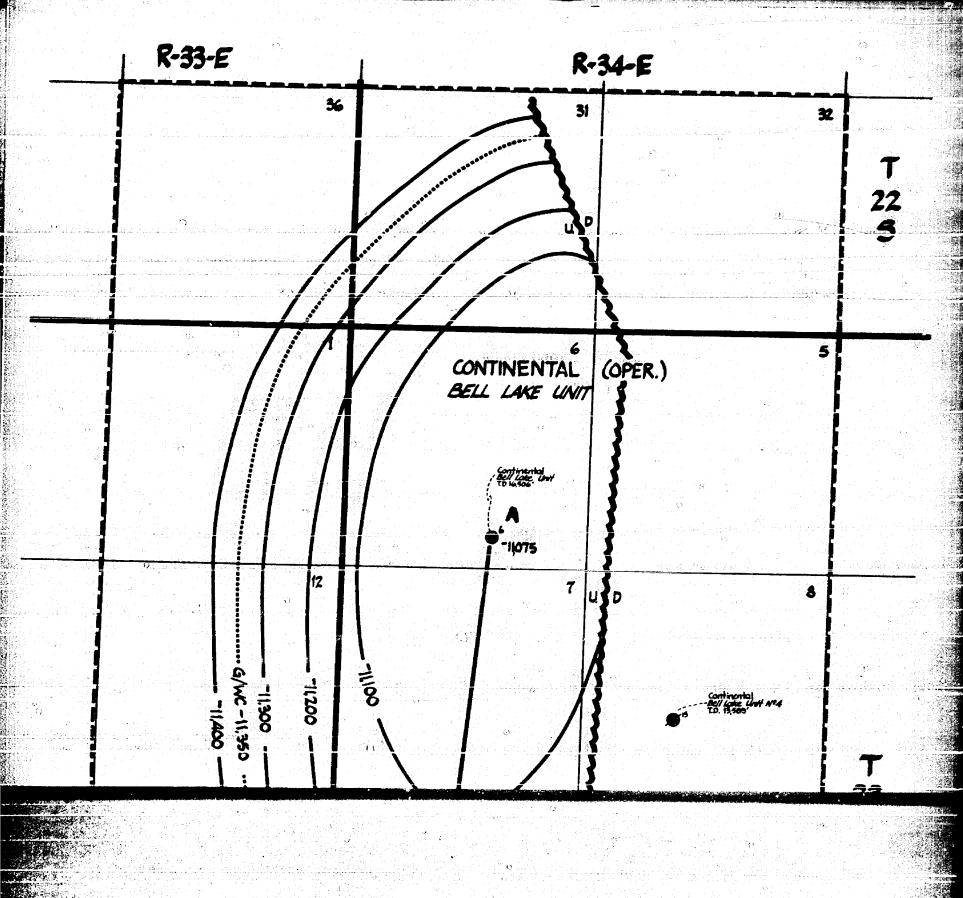
YEAR	MONTH	MCFPM.	ВСРМ	BWPM*
1977	Jan.	65,447	89	9,271
25	Peb.	65,985	130	14,768
en e	Mar.	72,573	121	13,745
g kanada sa atau sa		60,665		10,110
	May	74,785	152	17,153
14.	June	67,494	133	15,109
	July	71,403	158	17,949
	Aug.	67,003	128	14,541
	Sep. Oct.	70,052	132	14,995
	Nov.	69,720		
	Dec.	63,790	28	3,181
1977 TO		58,804 807,721	$\frac{162}{1,322}$	18,403 149,226
				143,220
1978	Jan.	56,408	121	13,746
	Feb.	56,411	126	14,314
	Mar.	62,324	172	19,539
	Apr.	61,342	112	12,723
	May	60,892	127	14,427
	June	59,841	140	15,904
192 (1937)	July	62,319	124	14,086
and the second	Aug.	61,098	157	17,835
	Sep.	61,701	138	15,677
	Oct.	59,134	135	15,336
	Nov.	56,464	134	15,223
	Dec.	51,730	<u>118</u>	13,405
1978 TO	IALS	709,664	1,604	182,214
1979	Jan.	954,271		
	Feb.	57,022	100	11,360
	Mar.	58,487	105 135	11,928
	Apr.	26,007	•119	15,336
137	May	61,415	141	13,518
	Julie	56,508	119	16,018 13,518
	July	48,329	112	13,310
	Aug.	48,292		
	Sep.	56,828	38	
	Oct.	55,802		를 하는 생활 기를 다음하다. 기계 등록 숙성하는
	Nov.	49,487	110	21,060
STATE OF THE PARTY.	Dec.	<u>57,278</u>	<u>131</u>	24,180
1979 TOT	ALS	629,723	1,110	126,918
1980	Jan.	55,774	140	24,180
	Feb.	49,204		
1000 mas	Mar.	53,385	<u>66</u>	<u>24,180</u>
1980 TOT.	ALS	158,363	206	48,360
CUMULATIV		23,920,448	49,033	006 310
JUNIOLIMIT		. * . 43,740,440 ;	7 - 47,033 () () () () () () () () () (996,719

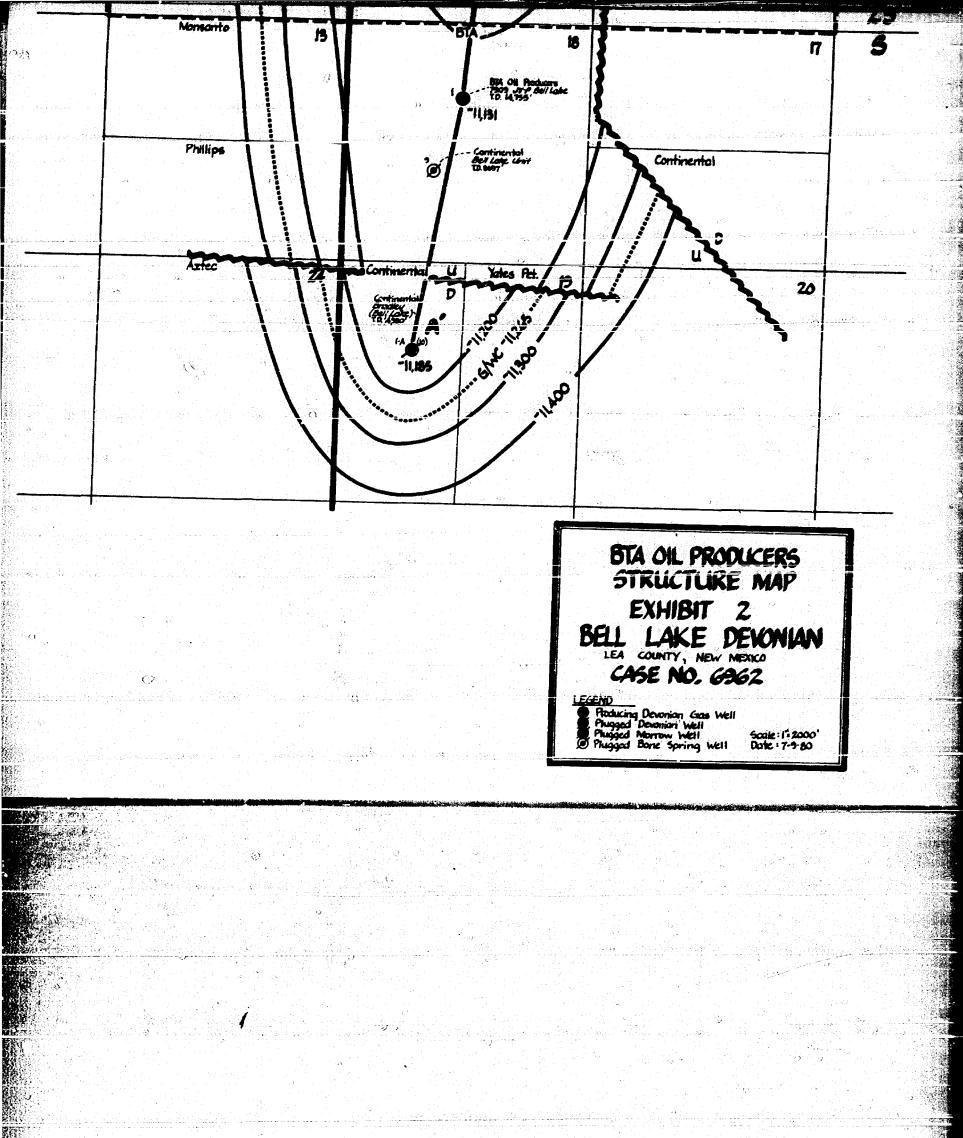
^{*}BWPM figure unavailable before January, 1974.

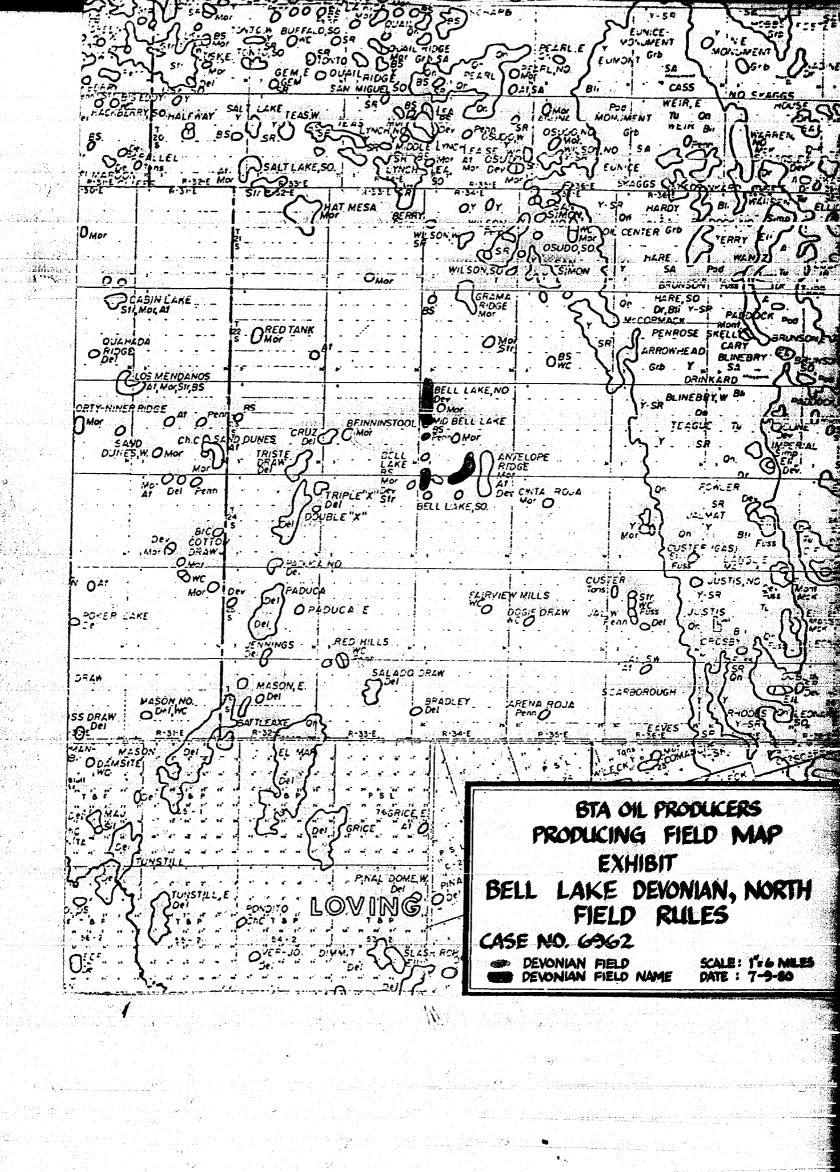
EXHIBIT NO. 1 CASE 6962 SUMMARY OF APPLICATION BELL LAKE NORTH (DEVONIAN)

- 1. Extension of the Bell Lake Devonian: North (Gas) Fool to include sections 6, 7, and 18 of T-23-S, R-34-E, Lea County, New Mexico.
- 2. The promulgation of spcial pool rules to include 640 acre spacing and well locations within a spacing unit no closer than 1,650 feet from the outer boundary lines, nor closer than 330 feet from a governmental quarter-quarter section.









1961 1962 1963 1964 1964 1964 1965		YEAR	MONTH	MCFPM	ВСРМ	BWPM*
Feb. Mar. Mar. Mar. Mar. May June July Aug. Sep. 50,262 128 Oct. 46,674 143 Nov. 61,489 182 Dec. 80,180 102 1961 TOTALS 1962 Jan. 112,482 176 Feb. 91,587 292 Mar. 18,056 361 Apr. 48,715 140 May 34,288 97 June 19,320 91 June 19,320 91 Aug. 60,67 Nov. 27,700 47 Pec. 127,610 407 Nov. 27,700 47 Pec. 127,610 407 Pec. 127,610 407 Nov. 27,700 47 Pec. 127,610 407 Pec. 127,610 407 Nov. 27,700 47 Pec. 127,610 407 June 19,320 1,731 1963 Jan. 1,497 20 Pec. 17,610 407 Pec. 17,610 407 Nov. 27,700 47 Pec. 17,610 407 Nov. 27,700 47 Pec. 17,610 407 Pec. 17,610 407 Nov. 27,700 47 Pec. 17,610 407 Pec. 17,610 407 Nov. 42,425 3 Dec. 59,552 15 1963 TOTALS 259,865 121 1964 Jan. 78,058 Nov. 42,425 3		laran (dan Kasamalan) 14 96 (. v. Chiritani		la ulialo ilalonako, k <u>od</u>	
Mar. Apr.		1,01				
Hay June July		lateraklikulmi irangi. D	Mar.	nas fever pari e 🕶 para la esta 1966 bisto il estrepa	a Bhair Canaigh an Bhailteann an Laidean. A Bhair Canaigh an Bhaile Bhaile an Laidean.	Language de la caractera de la language de la language de la caractera de la caractera de la caractera de la c
July Aug. 6,067 Sep. 50,262 128 Oct. 46,674 143 Nov. 67,489 182 Dec. 80,180 102 1961 TOTALS 250,672 555 1962 Jan. 112,482 176 Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 15,320 81 July 39,874 73 Aug. 62 Sep. 62 Sep. 62 Oct. 7,709 47 Nov. 227,709 47 Nov. 127,709 47 Nov. 127,709 47 Nov. 127,709 47 Nov. 127,601 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb. 94,047 56 Nov. 42,425 3 Sep. 9,333 - Cot. 34,674 36 Nov. 42,425 3 Sep. 9,333 - Cot. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,865 121 1964 Jan. 78,058 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,865 121 1964 Jan. 78,058 Nov. 42,425 3 Dec. 196,652 15 1963 TOTALS 259,865 121	ter fra film film film film film film film film	กละ เมื่องสารสารสารสารสารสารสารสารสารสารสารสารสารส	and the second of the second o	Balling the second of the seco	olendyk <u>kom</u> (pasatowani sa	a si dalawan 1931 ilang 1 <u>931 ilang 1</u>
July Aug. 6,067 Sep. 50,262 Qct. 44,674 143 Nov. 67,489 182 Dec. 80,180 102 Dec. 80,180 102 1961 TOTALS 250,677 555 1962 Jan. 112,482 176 Feb. 91,587 292 Mar. 138,036 361 Apr. 46,716 140 May 34,288 97 July 39,874 73 Aug 52 Sep 0 Qct 0 Nov. 27,709 47 Nov. 27,709 47 Nov. 27,709 47 Dec. 127,510 462 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb				The second section of the section of the second section of the section of the second section of the second section of the section of th	et e miles som en en en en en et en	
Aug. 5,067 Sep. 50,262 128 0ct. 46,674 143 Nov. 67,489 182 Dec. 80,180 102 1961 TOTALS 250,672 555 1962 Jan. 112,482 176 Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,330 81 July 39,874 73 Aug. 62 Sep		• • •				
Sep. 50,262 128 0ct. 46,674 143 Nov. 67,489 182 1962 Jan. 112,482 176 Feb. 80,180 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug. 62 Oct. 639,622 1,731 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb. 2,709 47 Nec. 127,709 47 Nec. 127,709 47 Nec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb. 2				6 067		
Oct. 46,674 143 Nov. 67,489 182 Dec. 80,180 102 1961 TOTALS 250,672 555 1962 Jan. 112,482 176 Feb. 91,587 299 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep Oct. 77,709 47 Nov. 27,709 47 Nov. 27,709 47 Dec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Mar Mar Mar Mar May				50.262	128	
Nov. 67,489 182 Dec. 80,180 102 1961 TOTALS 250,672 555 1962 Jan. 112,482 176 Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,228 97 June 19,320 81 Jully 39,874 73 Aug. Oct. Nov. 27,709 47 Dec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Peb. - - Apr. - Apr. - - Apr. - Apr. - - Apr. - Apr. - - July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Cet. 34,674 36 Nov. 42,425 3 June 1,925 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 14,389 371 May 111,635 195 June 21,312 620 June 21,313 55,676 435 Sep. 14,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
1962 Jan. 112,482 176 Peb. 91,587 299 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep 6 Oct 6 Nov. 27,709 47 Nov. 27,709 47 Nov. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Apr. Apr Apr. May June 11,026 July 51,164 40 Aug. 40,114 7 Sep. 9,333 6 Oct. 54,674 36 Nov. 42,425 3 Dec. 55,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 144,609 351 Oct. 191,609 371 Nov. 46,237 117 Dec. 23,583 52						**
1962 Jan. 112,482 176 Peb. 91,587 299 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep 6 Oct 6 Nov. 27,709 47 Nov. 27,709 47 Nov. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Apr. Apr Apr. May June 11,026 July 51,164 40 Aug. 40,114 7 Sep. 9,333 6 Oct. 54,674 36 Nov. 42,425 3 Dec. 55,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 144,609 351 Oct. 191,609 371 Nov. 46,237 117 Dec. 23,583 52				80,180	102	
Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep Oct. 7,709 47 Pec. 127,610 462 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Mar May June 1,026 July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,038 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 115,676 435 Sep. 144,604 351 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 146,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		1961 TC	TALS	250,672	555	
Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep Oct. 7,709 47 Pec. 127,610 462 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Mar May June 1,026 July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,038 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 115,676 435 Sep. 144,604 351 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 146,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52			The second secon	and the second of the second o		
Feb. 91,587 292 Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug 62 Sep Oct. 7,709 47 Pec. 127,610 462 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Mar May June 1,026 July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,038 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 115,676 435 Sep. 144,604 351 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 146,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		1962	Ion	112.402	176	
Mar. 138,036 361 Apr. 48,716 140 May 34,288 97 June 19,320 81 July 199,874 73 Aug 62 Sep Oct Oct Nov. 27,709 47 Dec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Apr Mar Apr May July 51,164 40 Aug. 40,114 7 Sep. 9,333 Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Peb. 84,047 56 Mar. 74,629 186 Apr. 141,339 371 Nay 111,635 195 June 211,312 620 July 9,100 239 Aug. 155,676 435 Sep. 1,14,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		1702		91 587	292	
Apr. 48,716 140 May 34,288 97 June 19,320 81 July 39,874 73 Aug. — 62 Sep. — — — — — — — — — — — — — — — — — — —						
May 34,288 97 June 19,320 81 July 39,874 73 Aug. - 62 Sep. - - Oct. - Nov. 27,709 47 Dec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb. - - Apr. - - Apr. - - Apr. - - June 1,026 - June 1,026 - July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 194,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
July 39,874 73 Aug 62 Sep				34,288		
Aug. Sep. Oct. Nov. Nov. 27,709 47 Nec. 127,610 402 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb						
Sep. 0ct.			reach to the desire of the first transfer to the contract of t	39,874		
Oct. Nov. 27,709 47 Dec. 127,610 462 1962 TOTALS 639,622 1,731 1963 Jan. 1,497 20 Feb Mar Apr June 1,026 - July 51,164 40 Aug. 40,114 7 Sep. 9,333 - Cot. 6464 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 143,604 351 Oct. 139,099 371 Nov. 46,237 117					62	er etter verkatili kvar kalla etiliklis. Histori
Nov. 27,709 47 Dec. 127,610				원하다 : 그리고 설립 등 1 시간 (1985년) 		
Dec. 127,610 402 1,731				27 709	7.7	
1962 TOTALS 1963 Jan. 1,497 20 Feb				127,610		
1963 Jan. 1,497 20 Feb		1962 TO	TALS	639,622	$\overline{1,731}$	
Feb. Mar. Apr. Apr. May June June 1,026 40,114 Aug. 40,114 7 Sep. 9,333 Oct. Nov. 42,425 3 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 June 211,312 620 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
Feb. Mar. Apr. Apr. May June June 1,026 40,114 Aug. 40,114 7 Sep. 9,333 Oct. Nov. 42,425 3 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 June 211,312 620 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52			rest if Bashina a factor			
Mar. Apr. — — — — — — — — — — — — — — — — — — —		1963		1,497	20	
Apr. May				and the second second		
May				그런 그렇고 하고 된		
June 1,026 — July 51,164 40 Aug. 40,114 7 Sep. 9,333 — Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 22,583 52						
July 51,164 40 Aug. 40,114 7 Sep. 9,333 — Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				1,026		
Aug. 40,114 7 Sep. 9,333 - Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		e et vitalia a anne di et estidit ta Telefon Elifonte for estidi	July	51,164	40	
Oct. 54,674 36 Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52			Aug.	40,114		
Nov. 42,425 3 Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				9,333		
Dec. 59,652 15 1963 TOTALS 259,885 121 1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
1964 Jan. 78,058 Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		1963 TO		259 885	121	
Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
Feb. 84,047 56 Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
Mar. 74,629 186 Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52		1964	Jan.	78,058		
Apr. 141,389 371 May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				84,047	56	
May 111,635 195 June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				74,629	186	
June 211,312 620 July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				141,389	3/L 105	
July 97,007 239 Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52			June			
Aug. 155,676 435 Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52						
Sep. 134,604 351 Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52				155,676	435	
Oct. 139,099 371 Nov. 46,237 117 Dec. 23,583 52	GENERALE, P OR ELEVERANDO ELEVER	energi de ales elli (f. e.)	Sep.	134,604	351	
繼續於於·尊·李德智學 (1) \$822 (10 mm)			Oct.	139,099	371	
Dec. 23,583 52 1964 TOTALS 1,297,276 2,993				46,237	117	of explored to the second of €.
#####################################		1064 mom		23,583	52 7 002	
		1704 101		1,271,410	4,773	

YEAR	MONTH	<u>MCFPM</u>	BCPM	BWPM*
1965	Jan.	73,101	195	
era e Praticio Marketta (Caracta) e de la casa e de la cas Caracta (Caracta) e de la casa e	Feb.	62,441	166	
nostinja susai	Mar.	103,421	263	
general (n. 1864), en en en en 1865. Navel en	Apr.	54,230	106	
All the Control of th	May June	102,134	260	
4	July	91,647 16,643	225	an in Alberta Lagrange (Alberta)
	Aug.	75,484	40 161	
	Sep.	101,493	76	
	Oct.	77,437	240	
	Nov.	164,484	432	
late gijat jeograf	Dec.	223,945	287	
1965 TO	the contract of the contract o	1,146,460	2,451	
1966	Jan.	265,697	488	eta dia managana and a sete Managana
	Feb.	206,814	565	
	lar.	216,727	586	
	Apr.	204,212	360	
	May	210,630	333	
	June	178,757	508	
	July	153,277	219	
	Aug.	197,115	569	The state of the s
Called Andrews Commencer	Sep.	228,956	643	
	Oct.	227,302	558	
	Nov.	280,417	537	
100 miles (100 miles)	Dec.	294,074	<u>784</u>	
1966 TO	rals	2,663,978	6,150	
1967	Jan.	444		
130/	Feb.	272,747	697	
	Mar.	256,392	724 720	Service Commence
	Apr.	277,458	720 577	
	May	225,412	577 403	
	June	146,865 102,932	403 274	
المراجع فأبأنا وماشيا والمعافيل	July	165,134		
	Aug.	227,977	380 562	
$\mathcal{H}_{1}(\mathcal{H}_{1},\mathcal{H}_{2})$	Sep.	245,484	-656	المدار عمل والمائر المستد بالمستد في بالمدارة المائر المستد بالمستد
	Oct.	244,345	617	
	Nov.	230,484	570	
	Dec.	231,053	<u>537</u>	
1967 TOT		2,626,283	6,717	
1968	Jan.	240,052	612	
	Feb.	238,664	468	D.
NAMED DESCRIPTION OF THE PROPERTY OF THE PROPE	Mar.	232,634	617	
	Apr.	181,875	446	
And the second s	May	201,534	379	
# 6 - 1 	June	185,077	323	
	July	201,489	505	
And the second of the second o	Aug.	191,710	464	
	Sep,	193,939	/10	No. of the Control of the Alexander of t
	Oct.	213,493	451	
	Nov.	202,769	464	And the second s
an a late to the second	Dec.	193,508	412	en de la companya de La companya de la co
1968 TOTA	ALS	2,496,744	5,551	

YEAR	MONTH	<u>MCPPM</u>	ВСРМ	BWPM*
1969	Jan.	193,804	419	
14 115	Feb.	159,918	-367	
	Mar,	162,145	نَسْدَ مَا مُخْفَعُتُ الْمُؤْمِّ لِمُ كَالَّقَدُ وَمِنْ مَا رَبِيْ مُنْ رَبِيْنِ وَالْمُورِ وَالْمُ	ه . ه المناف المناف المناف المناف المناف المناف المناف المنافق المنافق المنافق المنافق المنافق المنافق المنافق
	Apr.	159,057	and the same of the late of the same of	ka dada in a sa sa sila in in a sa s
ورد استانگسلاک نیز داران	<u>May</u>	167,474	625	
	June	52,315	353	
	July	167,738	404	
	Aug.	157,313	340	
	Sep. Oct.	168,343	382 383	
	Nov.	168,044 159,779	262 ·	
	Dec.	164,243	7	
1969 TO	enter after a Millard	$\frac{1,880,173}{1,880,173}$	4,022	
			7,722	
1970	Jan.	162,637	308	n de transporter de la company De
	Feb.	153,587	446	
	Mar.	165,748		③
	Apr.	149,643	131	
	May	147,165	291	
	· June	148,672	219	
	July	99,683	176	
	Aug.	63,197	91	
	Sep.	154,181	262	
	Oct.	154,957	311	
4,54	Nov.	134,253	117	
1070 70	Dec.	152,210	200	
1970 TO	TWT9	1,685,933	2,552	
1071		17,3483		
1971	Jan. Feb.	148,733	284	
	Mar.	129,235	250 300	
	Apr.	139,257 130,240	300 288	
	May	136,167	256	
	June	120,110	214	interval and standard and a substitution of the second of
	July	180,308	258	
	Aug.	139,014	263	
	Sep.	.32,353	13	
	Oct.	68,628	○ 301	
	Nov.	147,914	323	
ing and the second control of the co	Dec.	128,214	275	
1971 TO	rals .	1,500,173	3,025	
1972	Jan.	121,544	289	
	Feb.	112,834	201	
	Mar.	134,174	266	A CONTRACTOR OF THE CONTRACTOR
	Apr.	122,740	256	a isom in the
	May	120,605	248	
	June	109,762	110	
"ภูวิทาร์สามาชาวสุดใสมาผู้การไปเปลื่อ "สีนักสามาชิก (สี 15 การาชาวิทา	July	89,300	175	
		94,126	220	ar et ubska autori al la 1997, an 190 al qual de la 1997, et en estado en
en e	Gep.	84,902	136	ه اور او العقابات فيد التعابيات
	Oct.	94,725	145	
	Nov.	84,900	33	
1072 000	Dec.	107,569	233	
1972 TOT	ens	1,277,181	2,312	

1973 Jan. 88,701 121 Feb. 55,665 57 57 65 57 65 57 65 57 65 65	YEAR	<u>MONTH</u>	<u>MCFPM</u>	ВСРМ	BWPM*
Feb.	1973		88,701	121	
Heart 113,365 259 Apr. 114,951 155 May 113,655 June 105,102 99 July 111,292 211 Aug. 108,803 219 Sep. 93,788 180 Oct. 112,295 235 Nov. 94,267 234 Dec. 106,158 137 1973 TOTALS 1,218,042 1,907	4.4		55,665		The management of the
May 113,655 June 105,102 99 July 111,292 211 Aug. 108,803 219 Sep. 93,788 180 Oct. 112,295 235 Nov. 94,267 234 Uec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 June 79,512 J	ili				
June 105, 102 99 July 111, 292 211 Aug. 108,803 219 Sep. 39,788 180 Oct. 112,295 235 Nov. 34,267 234 Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 16,834 Mar. 96,885 201 20,938 Apr. 89,169 1,73 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661	A STATE OF SERVICE			155	an na tatatagna dige
July 111,292 211 Aug. 108,803 219 Sep. 9),788 180 Oct. 112,295 235 Nov. 94,267 234 Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,854 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 - Oct. 84,130 - Oct. 84,130 - Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Mar. 93,509 166 17,31 18,021 1975 Jan. 74,264 12 1,250 Apr. 81,935 164 17,083 May 82,402 167 17,196 June 79,512 173 18,021 1976 Jan. 69,984 140 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 17,521 Sep. 78,742 168 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 16,563	and the state of t	or angleschenden and a control			
Aug. 108,803 219 Sep. 9],788 180 Oct. 112,295 225 Nov. 94,267 2234 Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,854 Mar. 96,885 201 20,338 Apr. 89,169 1,73 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 Oct. 84,130 Oct. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 May 82,402 166 17,292 Apr. 81,935 164 17,396 June 79,512 173 18,021 July 79,339 100 19,792 Aug. 74,638 149 15,521 Sep. 64,555 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,1483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 91,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 11,521 Sep. 78,742 148 15,521 Oct. 74,610 93 9,687 Nov. 64,128 134 13,938 Dec. 66,209 159 16,563		A CONTRACTOR OF THE CONTRACTOR		99	
Sep. 99,788 180 Oct. 112,295 235 Nov. 94,267 234 Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 16,854 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 — Oct. 84,130 — Oct. 84,130 — Oct. 84,130 — Dec. 71,364 139 14,479 1974 TOTALS 986,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 May 89,666 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 July 79,339 166 17,292 Apr. 81,955 164 17,983 May 82,402 167 17,384 May 82,402 167 17,385 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,555 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 99,502 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 July 59,171 212 22,083 Aug. 65,004 101 19,521 July 52,806 8 833 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		and the second s			
Oct. 112,295 235 Nov. 94,267 234 Nov. 94,267 234 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,834 Mar. 96,885 201 20,938 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,334 Aug. 82,030 77 8,021 Sep. 87,661 Oct. 84,130 Oct. 84,130 Oct. 84,130 Oct. 84,130 Nov. 57,775 258 26,875 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,836 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 1975 June 79,512 173 18,021 1975 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 July 79,339 190 19,792 Aug. 74,638 149 15,520 Oct. 68,103 147 17,396 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Apr. 69,1866 130 13,542 Har. 59,822 93 9,688 Apr. 65,104 131 13,542 Har. 59,822 93 9,688 Apr. 65,104 101 131 13,542 July 52,806 8 833 Aug. 65,004 101 19,521 Sep. 78,742 148 15,541 Oct. 74,610 93 9,687 Nov. 64,128 134 11,938 Dec. 66,209 159 165,563					
Nov. Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,821 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,334 Aug. 82,030 77 8,021 Sep. 87,661 7 8,021 Oct. 84,130 7 80.21 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 June 59,171 20,20 June 59,171 212 22,083 Aug. 65,004 101 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 131,13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 19,521 Sep. 78,742 168 134 11,958 Sep. 78,742 168 134 11,958 Dec. 66,1209 159 165,563					
Dec. 106,158 137 1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,854 Mar. 96,885 201 20,938 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,334 Aug. 82,030 77 8,021 Sep. 87,661		N			
1973 TOTALS 1,218,042 1,907 1974 Jan. 74,939 Feb. 87,603 181 18,834 Mar. 96,885 201 20,938 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661				and the second of the second o	
1974 Jan. 74,939 121 12,604 Feb. 87,603 181 18,854 Mar. 96,885 201 20,938 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 - Oct. 84,130 - Oct. 84,130 - Oct. 71,364 139 14,479 1974 TOTALS 988,046 1,517 156,021 1975 Jan. 74,264 12 1,250 Apr. 81,935 166 17,292 Apr. 81,935 166 17,386 June 79,512 173 18,021 July 79,339 190 19,739 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 133,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 170 13,646 May 50,470 74 7,708 June 59,121 173 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 170 131,3646 May 50,470 74 7,708 June 59,171 212 22,083 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 77,4610 93 9,687 Nov. 64,128 134 13,958 Dec. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 165,553	1070 6			137	
Feb. 87,603 181 18,854 Mar. 96,885 201 20,938 Apr. 89,169 1.73 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661	19/3 1	OTALS	1,218,042	1,907	
Feb. 87,603 181 18,854 Mar. 96,885 201 20,938 Apr. 89,169 1,73 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661	107%	0	74 636		
Mar. 96,885 201 20,938 Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661	1277				
Apr. 89,169 173 18,021 May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 - Oct. 84,130 - Nov. 57,775 258 26,875 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,396 June 79,512 173 18,021 July 79,339 190 19, 17,396 June 79,512 173 18,021 July 79,339 190 19, 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		The state of the s			
May 89,636 194 20,208 June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661		The second of th		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
June 77,625 16 1,667 July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661					
July 89,229 157 16,354 Aug. 82,030 77 8,021 Sep. 87,661 - Oct. 84,130 - Nov. 557,775 258 26,875 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,793 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,588 Dec. 74,6610 93 9,687 Nov. 64,128 134 13,588 Dec. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 74,610 93 9,687 Nov. 64,128 134 13,558 Dec. 66,209 159 16,563	n de de la companya d La companya de la co				
Aug. 82,030 77 8,021 Sep. 87,661 - Oct. 84,130 - Nov. 57,775 258 26,875 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,542 July 52,806 8 833 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 76,084 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
Sep. 87,661 Oct. 84,130 Nov. 57,775 Dec. 71,364 139 14,479 1974 TOTALS Peb. 82,856 Feb. 82,856 Apr. 81,935 June 79,512 July 79,339 Aug. 74,638 Aug. 74,638 Oct. 68,103 Nov. 69,289 Dec. 71,483 Dec. 71,483 Peb. 74,483 Peb. 61,866 130 137 Peb. 75,104 Peb. 71,483 Peb. 71,48		The state of the s			
Oct. 84,130 Z58 26,875 Nov. 57,775 258 26,875 Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,3396 June 79,512 173 18,021 July 79,339 190c 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 196 Jan. 69,984 140 14,583					8,021
Nov. Dec. 71,364 139 14,479 1974 TOTALS 988,046 139 1,517 158,021 1975 Jan. 74,264 12 1,250 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 10,521 Sep. 78,742 148 155,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 74,618 134 13,958 Dec. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
Dec. 71,364 139 14,479 1974 TOTALS 988,046 1,517 158,021				258	26 07E
1974 TOTALS 988,046 1,517 158,021 1975 Jan. 74,264 Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 Nov. 69,289 132 13,750 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 12,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 2,083 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		and the second of the second o		The first of the second of the second property and the second of the sec	
Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,7542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	1974 TO	TALS	988,046	1,517	
Feb. 82,856 173 18,021 Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,7542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	1075				
Mar. 93,509 166 17,292 Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	19/3				
Apr. 81,935 164 17,083 May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 197 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 19,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	* 4	· 在一个人的基本的基本的,但是一个人的			
May 82,402 167 17,396 June 79,512 173 18,021 July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
June 79,512 173 18,021 July 79,339 190 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	Nia – Vakatik	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The state of the s	
July 79,339 190 19,792 Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 7,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 Aug. 65,004 101 13,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
Aug. 74,638 149 15,521 Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					18,021
Sep. 64,595 146 15,208 Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		Aug.	74 639		19,792
Oct. 68,103 147 15,313 Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Har. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
Nov. 69,289 132 13,750 Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
Dec. 71,483 145 15,104 1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 140 14,583 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					
1975 TOTALS 921,925 1,764 183,751 1976 Jan. 69,984 Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 June 59,171 June 59,171 July 52,806 Aug. 65,004 Aug. 65,004 May 50,470 74,708 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 Dec. 66,209 159 16,563					
Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	1975 TO	rals .	921,925	1,764	
Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,476 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		in the wind to the property of the control of the c			
Feb. 61,866 130 13,542 Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	1976		69,984	140	14.583
Mar. 59,822 93 9,688 Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563			61.866		
Apr. 65,140 131 13,646 May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563		5 A 504-00 a control of the control		93	
May 50,470 74 7,708 June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563				131	
June 59,171 212 22,083 July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,009 159 16,563				Control of the contr	
July 52,806 8 833 Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563				212	
Aug. 65,004 101 10,521 Sep. 78,742 148 15,417 Oct. 74,610 93 9,687 Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	1			8	833
Nov. 64,128 134 13,958 Dec. 66,209 159 16,563				101	
Nov. 64,128 134 13,958 Dec. 66,209 159 16,563	n 1981 Been et Joseph Will.				15,417
Nov. 64,128 134 13,958 Dec. 66,209 159 16,563					9,687
1076 MOMAT C			04,128		
1,423 1,423	1074 mom	of a section	06,209		
	73/0 TOY	nad Nagarakan	707,332	1,423	148,229

YEAR	MONTH	MCFPM	ВСРМ	BWPM*
1977	Jan.	65,447	89	9,271
	Feb.	65,985	130	14,768
ىلىنىدىغىنىڭىدىغانىيىدانىدەت ا ئەربى ئارىدىداك ئارىدىدىداك ئارى				13,746
ku Bilingkawaga Bang	Apr.	60,665		10,110
Fis	May	74,785	152	17,153
عالم الكرياني والمحادث	June	67,494	133	15,109
en la la companya di salah	July	71,403	158	17,949
	Aug.	67,003	128	14,541
	Sep.	70,052	132	14,995
	Oct.	69,720		
	Nov.	63,790	. 28	3,181
1977 T	Dec. OTALS	58,804 807,721	$\frac{162}{1,322}$	$\frac{18,403}{149,226}$
				a di kilasa da
1978	Jan.	56,408	121	13,746
	Feb.	56,411	126	14,314
	Mar.	62,324	172	19,539
And the second s	May	61,372		12,723
	June	60,892 59,841	127	14,427
	July	62,319	140 124	15,904
	Aug.	61,098	157	14,086
	Sep.	61,701	138	17,835
	Oct.	59,134	135	15,677 15,336
	Nov.	56,464	134	15,222
	Dec.	51,730	118	13,405
1978 TO	TALS	709,664	1,604	182,214
1979	Jan.	54,271	• • • • • • • • • • • • • • • • • • •	
e Hanifalini dakara	Feb.	57,022	100	11,360
	Mar.	58,487	105 135	11,928
	Apr.	26,007	• 119	15,336 13,518
and advisory Alex	May	61,415	141	16,018
	June	56,508	119	13,518
	July	48,329	112	
	Aug.	48,292		
	Sep.	56,828	38	yarsı (1.5. <mark>≟</mark> ja∵ılı
	Oct.	55,802		
	Nov.	49,487	110	21,060
1070 800	Dec.	57,275	1, <u>131</u>	24,180
1979 TO	IALS	629,723	1,110	: 126,918
1980	Jan.	55,774	140	24,180
•	Feb.	49,204		an da a sa ang a tatata Ang atatan
1424001	Mar.	53,385	<u>66</u>	24,180
1980 TOT	ALS	158,363	206	48,360
CUMULATI	VE	23,920,448	49,033	996,719

^{*}BWPM figure unavailable before January, 1974.

Jason Kellahin W. Thomas Kellahin Resea Aubrey

KELLAHIN and KELLAHIN Attorneys at Law 500 Don Gaspar Avenue Post Office Box 1744 Santa Fe, New Mexico 87501

Telephone 982-4285 Area Code 505

June 13, 1980

Mr. Joe Ramey Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

BTA Oil Producers

SANTA FE

Case 6962

Dear Joe:

On June 10, 1980 I filed an application for Amendment to the North Bell Lake Morrow Gas Pool Rules. That application was in error. It should have been for the North Bell Lake Devonian Gas Pool.

Please substitute the enclosed Amended Application.

Very truly yours,

Mr. Steve Salmon (BTA) Mr. Paul Thompson (Conoco)

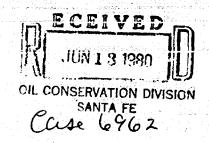
encl. WTK:msf

STATE OF NEW MEXICO

DEPARTMENT OF ENERGY AND MINERALS

OIL CONSERVATION DIVISION

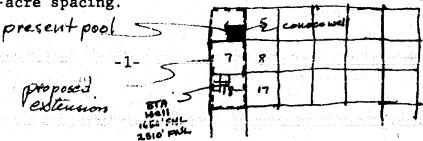
IN THE MATTER OF THE APPLICATION OF BTA OIL PRODUCERS FOR AMENDMENT TO THE NORTH BELL LAKE DEVONIAN CAS POOL RULES TO PROVIDE FOR 640-AGRE SPACING AND FOR EXTENSION OF THE HORIZONTAL LIMITS OF SAID POOL, LEA COUNTY, NEW MEXICO



AMENDED APPLICATION

COMES NOW BTA OIL PRODUCERS, by and through its attorneys, KELLAHIN & KELLAHIN, and applies to the New Mexico Oil Conservation Division for Amendment to the North Bell Lake Devonian Gas Pool Rules to provide for 640-acre spacing, for well locations no closer than 1,650 feet from the outer boundaries of a unit not closer than 330 feet to a governmental quarter-quarter section, and for extension of said pool to include all of Section 6, 7, and 18 of T23S, R34E, NMPM, Lea County, New Mexico, and in support thereof would show:

- 1. Applicant is the operator of the 7909 JV-P Bell Lake
 Well No. 1 located 1,650 feet from the North line and 2,510 feet
 from the west line of Section 18, T25S, R34E.
- 2. The only other operator in the subject area with a producing Devonian well is Conoco with a well located 660 feet from the South line and 1,980 feet from the East line of Section 6. Conoco has no opposition to said application provided its subject well is grandfathered as to location and acreage.
- 3. The existing rules for the subject pool were established on March 1, 1962 by Division Order No. R-2187, and include a provision for 160-acre spacing.



- 4. Applicant seeks the promulgation of amendments to the existing pool rules based upon its belief that the subject pool will be more effectively and efficiently developed on 640-acre spacing and that the subject wells are more likely to develop and produce 640 acres than 160 acres.
- 5. The subject pool rules were adopted prior to the adoption of Commission Order No. R-2707 dated May 25, 1964 which amended Rule 4 of the Commission Rules and Regulations to provide that "all gas pools of Pennsylvanian age or older in Southeast New Mexico which were created and defined on June 1, 1964 or later shall have 320 acre spacing..."
- 6. That one well in the subject pool will efficiently and economically drain and develop a 640-acre unit and the inclusion of a 640-acre spacing unit with well locations no closer than 1,650 feet from the outer boundary lines, nor closer than 330 from a governmental quarter-quarter section plus the extension of the pool to include Section 6, 7, and 18 will not cause waste nor violate correlative rights and should be approved.

WHEREFORE Applicant requests that this matter be set for hearing before the Division's examiner and that after notice and hearing the Application be granted as requested.

BTA PRODINERS

W. Thomas Kellahin KELLAHIN & KELLAHIN

P. O. Box 1769

Santa Fe, New Mexico 87501

Phone: 505-982-4285 ATTORNEYS FOR APPLICANT

STATE OF NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS OIL CONSERVATION DIVISION

IN THE MATTER OF THE ARRIVATION OF BTA OIL PRODUCERS FOR AMENDMENT TO THE NORTH BELL LAKE DEVONIAN GAS POOL RULES TO PROVIDE FOR 640-ACRE SPACING AND FOR EXTENSION OF THE HORIZONTAL LIMITS OF SAID POOL, LEA COUNTY, NEW MEXICO



AMENDED APPLICATION

COMES NOW BTA OIL PRODUCERS, by and through its attorneys, KELLAHIN & KELLAHIN, and applies to the New Mexico Oil Conservation Division for Amendment to the North Bell Lake Devonian Gas Pool Rules to provide for 640-acre spacing, for well locations no closer than 1,650 feet from the outer boundaries of a unit not closer than 330 feet to a governmental quarter-quarter section, and for extension of said pool to include all of Section 6, 7, and 18 of T23S, R34E, NMPM, Lea County, New Mexico, and in support thereof would show:

- 1. Applicant is the operator of the 7909 JV-P Bell Lake
 Well No. 1 located 1,650 feet from the North line and 2,510 feet
 from the west line of Section 18, T25S, R34E.
- 2. The only other operator in the subject area with a producing Devonian well is Conoco with a well located 660 feet from the South line and 1,980 feet from the East line of Section 6. Conoco has no opposition to said application provided its subject well is grandfathered as to location and acreage.
- 3. The existing rules for the subject pool were established on March 1, 1962 by Division Order No. R-2187, and include a provision for 160-acre spacing.

- Applicant seeks the promulgation of amendments to the existing pool rules based upon its belief that the subject pool will be more effectively and efficiently developed on 640-acre spacing and that the subject wells are more likely to develop and produce 640 acres than 160 acres.
- The subject pool rules were adopted prior to the adoption of Commission Order No. R-2707 dated May 25, 1964 which amended Rule 4 of the Commission Rules and Regulations to provide that "all gas pools of Pennsylvanian age or older in Southeast New Mexico which were created and defined on June 1, 1964 or later shall have 320 acre spacing..."
- 6. That one well in the subject pool will efficiently and economically drain and develop a 640-acre unit and the inclusion of a 640-acre spacing unit with well locations no closer than 1,650 feet from the outer boundary lines, nor closer than 330 from a governmental quarter-quarter section plus the extension of the pool to include Section 6, 7, and 18 will not cause waste nor violate correlative rights and should be approved.

WHEREFORE Applicant requests that this matter be set for hearing before the Division's examiner and that after notice and hearing the Application be granted as requested.

BTA PRODUCERS

W. Thomas Kellahir KELLAHIN & KELLAHIN

P. O. Box 1769 Santa Fe, New Mexico 87501 Phone: 505-982-4285

ATTORNEYS FOR APPLICANT

STATE OF NEW MEXICO

DEPARTMENT OF ENERGY AND MINERALS OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF BTA OIL PRODUCERS FOR AMENDMENT TO THE NORTH BELL LAKE DEVONIAN GAS POOL RULES TO PROVIDE FOR 640-ACRE SPACING AND FOR EXTENSION OF THE HORIZONTAL LIMITS OF SAID POOL, LEA COUNTY, NEW MEXICO

JUN 1 3 1980 JUN 1

AMENDED APPLICATION

COMES NOW BTA OIL PRODUCERS, by and through its attorneys, KELLAHIN & KELLAHIN, and applies to the New Mexico Oil Conservation Division for Amendment to the North Bell Lake Devonian Gas Pool Rules to provide for 640-acre spacing, for well locations no closer than 1,650 feet from the outer boundaries of a unit not closer than 330 feet to a governmental quarter-quarter section, and for extension of said pool to include all of Section 6, 7, and 18 of T23S, R34E, NMPM, Lea County, New Mexico, and in support thereof would show:

- 1. Applicant is the operator of the 7909 JV-P Bell Lake Well No. 1 located 1,650 feet from the North line and 2,510 feet from the west line of Section 18, T25S, R34E.
- 2. The only other operator in the subject area with a producing Devonian well is Conoco with a well located 660 feet from the South line and 1,980 feet from the East line of Section 6. Conoco has no opposition to said application provided its subject well is grandfathered as to location and acreage.
- 3. The existing rules for the subject pool were established on March 1, 1962 by Division Order No. R-2187, and include a provision for 160-acre spacing.

- Applicant seeks the promulgation of amendments to the existing pool rules based upon its belief that the subject pool will be more effectively and efficiently developed on 640-acre spacing and that the subject wells are more likely to develop and produce 640 acres than 160 acres
- 5. The subject pool rules were adopted prior to the adoption of Commission Order No. R-2707 dated May 25, 1964 which amended Rule 4 of the Commission Rules and Regulations to provide that "all gas pools of Pennsylvanian age or older in Southeast New Mexico which were created and defined on June 1, 1964 or later shall have 320 acre spacing ... "
- 6. That one well in the subject pool will afficiently and economically drain and develop a 640-acre unit and the inclusion of a 640-acre spacing unit with well locations no closer than 1,650 feet from the outer boundary lines, nor closer than 330 from a governmental quarter-quarter section plus the extension of the pool to include Section 6, 7, and 18 will not cause waste nor violate correlative rights and should be approved.

WHEREFORE Applicant requests that this matter be set for hearing before the Division's examiner and that after notice and hearing the Application be granted as requested.

BTA PRODUCERS

KELLAHIN & KELLAHIN O. Box 1769

Santa Fe, New Mexico 87501 Phone: 505-982-4285

ATTORNEYS FOR APPLICANT

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE DURIOSE OF CONSIDERING:

CASE NO. 6962-

MALICATION OF BTA OIL PRO-DUCERS FOR SPECIAL POOL RULES AND POOL EXTENSION LEA COUNTY, NEW MEXICO.

John

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 1980, at Santa Fe, New Mexico, before Examiner DSN NOW, on this day of day of 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- That The applicant BTA Oil Producers, har has completed its 7909 JV-PWELL ho. I located 1650 feet from the Marth Line and 2610 feet from the Wart Line of Section 18, Township 23 South, Rance 34 East, MMPM, Ren County, kew Meerico as a gas will in the Devocion formation, polaring through perforations from 14,660 feet to 14,708 feet.

(3) That said well in located expressioned, 1.5 miles south of the Contributed Oil Co. Free Rake Unit west to.6, which is for in this Oil Section & of said Thurship 23 South, Kang 34 East, L. I for which the bath free Rafe- Avience. For Which the bath free Rafe- Avience. For Pool was created and defined by the Division beaut 1,1962, company the safe of said Section 6.

(4) That the applicant seeks the lettering of Said Barth Ball Rate Purming gar Poll B include its 1901 IV-P was Bo. I, and factor seeks the promulgation of special many a special many and special was for 640-acts spacing and special was locations.

(1) That the swidness pregnth, everlate in the Cates that said bets Kates think lated to be and applicant's 1909 IV-P West To. I have in the producing from a terminal source of hosping in the Verrinan trails and that laid Tark free Late-Florenia for Baid 1909VI-PURK To. I

(4) That the surfaces further indicate that
one world in said Took free hate. Devoice
for I not is capased of driving 640 associated
and that 640 associated for said pool
with should be sufficient for said pool
with wree locations for I time with to
be see closer than 1650 for to the antilea see closer than 1650 for to the antileamstory of the said pool
10 for to any quarter quarter section like

(1) That an arder ambodying the attached ings in in the internet of Language to the last with a favorable to the company was to the company with a favorable to the company of the company

17:15 THE REPORT OF PARCE !

(1) The A Mar Rock folk folk. Devening for the Poul in Research folk folk. Devening for the Poul in Report of the Control of th

2) That Spaine Book Rum and Regulation for said bank bee Rake-Devanian Gar Alle are hency promegand on faccour:

Section 18: All

SPECIAL RULES AND REGULATIONS FOR THE MORTH BELL LAKE-DEVONIAN GAS POOL

RULE 1. Each well completed or recompleted in the North Bell Lake - Devonian Gas Pool or in the Devonian formation within one mile thereof, and not nearer to or within the limits of another designated Devonian gas pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 640 acres, more or less, consiting of a governmental section.

RULE 3. The Director of the Division may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:

- (a) The non-standard unit consists of quarterquarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a governmental section and contains less acreage than a standard unit.
- (c) The applicant present written consent in the form of waivers from all offset operators and from all operators owning interests in the section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
- (d) In lieu of Paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Division Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Director has received the application.
- RULE 4. Each well shall be located no nearer than 1650 feet to the outer boundary of the section and no nearer than 330 feet to any governmental quarter-quarter section line.
- RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to a deeper horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.

IT IS FURTHER ORDERED:

Salah Baran Salah Sa

The state of the s

- (1) That the locations of all wells presently drilling to or completed in the with Belliaks Devonian Gas Pool or in the Devonian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District office of the Division in writing of the name and location of the well on or before December 157, 1979. September 1979.
- (2) That, pursuant to Paragraph A. of Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, existing wells in the **** Devonian Gas Pool shall have dedicated thereto 640 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

Failure to file new Forms C-102 with the Division dedicating 640 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the North Bellete - Devonian Gas Pool or in the Devonian formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool,

DONE at