COUNTY, NEW MEXICO

# CASE NO.

6878

APPlication, Transcripts, Small Exhibits,

ETC.



LARRY KEHOE

A STATE OF THE STA

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

POST OFFICE BOX 2009 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 1505) 827-2434

June 13, 1980

Mr. Donald W. Miller Attorney at Law 908 Old Santa Fe Trail Santa Fe, New Mexico Re: CASE NO. 6878
ORDER NO. R-6357

Applicant:

Stevens Oil Company

Dear Sir:

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

Yours very truly,

JOE D. RAMEY

Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

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. 6878 Order No. R-6357

APPLICATION OF STEVENS OIL COMPANY FOR A NON-STANDARD GAS PRORATION UNIT AND UNORTHODOX LOCATION, CHAVES COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 21, 1980, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 5th day of June, 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, Stevens Oil Company, seeks approval of a 160-acre non-standard gas proration unit comprising the M/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, NMPM, to be dedicated to its O'Brien "F" Well No. 4 to be located at an unorthodox location 1650 feet from the South line and 2310 feet from the West line of said Section 25.
- (3) That the entire non-standard proration unit may reasonably be presumed productive of gas from the Twin Lakes-San Andres Associated Pool and that the entire non-standard gas proration unit can be efficiently and economically drained and developed by the aforesaid well.

-2-Case No. 6878 Order No. R-6357

(4) That approval of the subject application will afford the applicant the opportunity to produce his just and equitable share of the gas in the Twin Lakes-San Andres Associated Pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

#### IT IS THEREPORE ORDERED:

- (1) That a 160-acre non-standard gas proration unit in the Twin Lakes-San Andres Associated Pool comprising the M/2 SM/4 and S/2 MM/4 of Section 25, Township 8 South, Range 28 East, MMPM, Chaves County, New Mexico, is hereby established and dedicated to the Stevens Oil Company O'Brien "F" Well Mo. 4 at an unorthodox location, hereby approved, 1650 feet from the South line and 2310 feet from the West line of said Section 25.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DOME at Santa Pe, New Nexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
JOE D. RAMEY
Director

£å/

IALLY W. BOYD, C.S.R Rt. 1 Box 193-B Santa Fc, New Menico 87301 Phone (303) 435-7409 10

15

17

19

20

21

22

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

#### EXAMINER HEARING

IN THE MATTER OF:

Application of Stevens Oil Company
for a non-standard gas proration
unit and unorthodox location, Chaves
County, New Mexico.

and

Application of Stevens Oil Company
to amend Order No. R-5353, Chaves
County, New Mexico.

CASE
6893
County, New Mexico.

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

#### APPEARANCES

For the Oil Conservation Ernest L. Padilla, Esq.

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

For the Applicant: Donald W. Miller, Esq.
Santa Fe, New Mexico 87501

26

13

14

15

16

17

21

22

23

### INDEX

#### JACK ALLEN

Direct Examination by Mr. Miller Cross Examination by Mr. Stamets 12

#### EXHIBITS

Applicant Exhibit Five, Plat Applicant Exhibit Six, Plat

MR. STAMETS: We'll call next Case 6878.

MR. PADILLA: Application of Stevens Oil

11

12 13

14 15

17

23

Company for a non-standard gas proration unit and unorthodox location, Chaves County, New Mexico.

MR. STAMETS: I'll call for appearances

in this case.

MR. MILLER: My name is Donald Miller and I represent Stevens Oil Company in this case. I have one witness.

#### (Witness sworn.)

#### JACK ALLEN

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

#### DIRECT EXAMINATION

#### BY MR. MILLER:

Mr. Allen, would you state your name, please?

- My name is Jack Allen.
- Where do you live?
- I live in Roswell, New Mexico.
- What is your occupation?
- I'm a consulting geologist.

13

17

20

21

22

23

Page	4
------	---

What is your relationship to the applicant here, Stevens Oil Company?

I have been employed by Stevens Oil Company to investigate the circumstances of Twin Lake Oil and Gas Pool and present testimony to that effect.

Have you testified before the Hearing Examiner before and been accepted as an expert witness?

Yes, I have.

MR. MILLER: Mr. Hearing Examiner, is the witness -- are the witness' qualifications acceptable for testimony?

> MR. STAMETS: They are.

MR. MILLER: Mr. Hearing Examiner, I move that the testimony and exhibits presented at the previous hearing by Mr. Allen be combined and consolidated with the testimony and exhibits which will be presented here today under Cause Number 6893 for purposes of this hearing.

MR. STAMETS: You want to combine 6878 with 6893?

MR. MILLER: Yes, sir.

MR. STAMETS: Okay. Let's call 6893.

MR. PADILLA: Application of Stevens Oil Company to amend Order No. R-5353, Chaves County, New Mex-

ico.

MR. STAMETS: Are there any other appear-

20

21

22

23

ances in either of these two cases?

We will consolidate Case 6878 and 6893.

MR. MILLEP: Thank you.

Q Mr. Allen, would you state what the applicant seeks in these petitions?

A The application, yes, sir.

In Case 6878 the applicant seeks approval of a 160-acre non-standard proration unit, comprising the north half of the southwest quarter and the south half of the northwest quarter of Section 25 of Township 8 South, Range 28 East, which is located in the Twin Lake San Andres Associated Pool.

This proration unit would be dedicated to the O'Brien "F" Well No. 4 at an unorthodox location of 1650 feet from the south line and 2310 feet from the west line of the said Section 25.

Okay. In Case 6893 the applicant seeks to amend Order No. R-5353, which are rules governing the Twin Lakes San Andres Pool. The revision to the rules would provide that each well, whether oil or gas, shall be located no nearer than 330 feet from any quarter-quarter section line, except that any well drilled specifically for known gas in a known gas productive area, shall be located within 150 feet of the center of a quarter-quarter area.

Would you explain to the Hearing Examiner

Q.

12

13

17

21

22

23

why the applicant seeks this relief?

There are essentially three reasons for seeking this relief.

Our primary reason being that it allows considerably more flexibility in well location to avoid gas, known gas areas. A gas well is less commercial than an oil well. Producing a gas well would adversely affect reservoir energy and the applicant seeks to drill oil wells only, and only by accident will we be drilling into a gas cap or a gaseous portion of the reservoir.

Secondly, we are attempting to maintain the spacing that has already been established and the pattern already established within the oil field. If you'll note on the map, Exhibit Number Five, that in Section 25 most of the wells are pulled south and east from the center of a quarter-quarter section. This is for purposes of secondary recovery at the time when we feel that it is proper to proceed with secondary recovery endeavors.

What will be the effect on the applicant if the applicant is drilling for oil and strikes gas and does not have -- if this application is not granted?

Okay, the requirement would be that in each instance a special hearing would have to be held in Santa Fe for permission for an unorthodox location for a gas well. This would waste the time of the Oil Conservation

11

12

13

14

15

16

17

20

21

22

23

24

25

Commission as well as that of the applicant.

Q And that is also because there is no allowable, am I correct.

A There would be no allowable for the well unless they were approved.

Q Mr. Allen, I hand you what has been marked as Applicant's Exhibit Number Five and ask you if you recognize that and state what it is.

A. Yes, sir, this is a location plat in the Twin Lake San Andres Pool, showing the location of all of the wells that have been drilled to date and some proposed locations.

Q. Is that exhibit the same exhibit as what has previously been admitted by the Hearing Examiner in the previous hearing as Exhibit One?

A Yes, sir, with the exception of the location of two wells that are being proposed by applicant.

Q Where are those wells?

A. The location for Well "F" No. 5 O'Brien is in Section 35 and it is circled in red in Section 35, located 330 from the south line and 1650 feet from the east line.

Well No. "F" 6 is located in Section 26, being 1650 from the south and 330 from the east.

Q In these wells under the present rules,

12

13

15

16

17

18

19

20

21

22

23

24

25

if gas is encountered after drilling it as an oil well, are you in an orthodox or an unorthodox location?

A According to current rules, we are in an unorthodox location: therefor, a hearing would have to be set in each of those instances and we'd go through the same thing again.

The primary purpose of Stevens Oil Comapny is to find oil and not gas, and these wells are located on the premise that we will be exploring for oil.

Q Let me refer you, then, Mr. Allen, to what has been marked as Applicant's Exhibit Number Six and ask you if you recognize that, and ask you to state what it is to the Hearing Examiner?

A Yes, sir, this is the same exhibit that we used at the previous hearing. I think it was Exhibit

Number Two, with the exception of the wells No. 5 O'Brien and 6 O'Brien, as previously stated.

Q. All right, sir. Now, relating to the known gas caps, where are these wells located?

A Okay, they are located outside the known gas caps.

Q All right.

A. As I have projected them based on the evidence a month ago.

All right, and the reason they're located

11

12

13

14

15

16

17

20

21

22

23

is that the applicant is purposely attempting to avoid drilling near the gas caps, is that correct?

A That is correct.

Q In your opinion do the locations of these two wells conform with the field spacing patterns?

A They do. For oil wells, yes, sir.

Q For oil wells?

A Yes, sir.

Q What purpose as related to secondary recovery and infill drilling is the -- is served by locating these wells where they are -- would be located?

A. Okay. Applicant feels that one well on 40-acres will not adequately drain the reservoir and in the development that has been carried on by Stevens Oil Company, provision has been made for another well, a second well, on each 40-acre proration unit at the diagonal location from the present location, and applicant has maintained a pattern with certain exceptions, those wells that have been drilled in the distant past are not on this particular pattern.

But all recent wells are maintained on this pattern so that a second well in a 40 may be drilled.

And after that well is drilled, then secondary recovery procedures can take place.

Q All right. Would you please explain for the Hearing Examiner the factors behind the unorthodox loca-

W. E(JYD, C.S.R. 1. 1 Bxt 199-B 2. New Mexico \$7501

11

15

16

20

tion of F-4?

A Yes, sir. The F-4 was located on the basis of attempting to extend the oil field in a northerly direction from already developed production on the Stevens Oil Company O'Brien lease in the west half of Section 25.

The well was drilled in the normal pattern that Stevens Oil Company drills their wells.

In Section 25 Harlow Corporation initiated drilling in the south and east portion of each 40. They were pulled south and east of each 40. So applicant, on his second well reflected this pulling to maintain the standard pattern so that engineering studies would be more compatible.

At the time Well No. 4 was drilled the No. 1 O'Brien of Stevens Oil Company was a very poor well. As a matter of fact, it had been temporarily abandoned, and the No. 3 Well which you see on the map was drilled to replace it. It is -- it was a producing oil well.

The No. 2 O'Brien, a good producing oil well, also. The Harlow Corporation No. 1, 2, 3, and 4 were oil wells. Therefor a well at this location, this structural position down-dip from some oil wells, at the same structural datum as other producing oil wells, it was expected that it would be an oil well, also.

Q Under the present rules what sort of location would this be for a gas well?

12

13

14

15

16

17

19

20

21

22

Ž

Unorthodox.

And I think you've testified there would he no allowable therefor without an exception?

That is correct.

If the applicant is denied the allowable, what will be the result regarding the drilling of another unorthodox location?

Another unorthodox location?

A new -- a new --

A new well?

Yeah.

A new well would have to be drilled at an orthodox location which is within 150 feet of the center of the quarter-quarter section, a No. 5 well, perhaps; the cost of such a well is approximately \$150,000. The No. 4 Well would have to be abandoned and it would be a very significant economic waste.

Mr. Allen, were these exhibits prepared by you or under your direction and supervision?

Yes, sir, they were.

Five and Six? In your opinion, and based upon your experience and knowledge in this field, would the granting of the applications prohibit waste, protect correlative rights, and avoid the necessity of incurring further drilling costs by the applicant?

12

13

17

20

21

22

23

A Yes, sir, I do believe so, as previously stated in my testimony.

All right, would you just sum up why you believe that is so for the Hearing Examiner? Why would it prohibit waste?

A It would prohibit waste -- the granting of the application would prohibit waste in that another, a second well would not have to be drilled on this same proration unit.

It would protect correlative rights in that there is oil underneath this lease that applicant has a right to recover, and would not be able to recover if he were not granted this application.

Q. And he would lose that correlative right if the application was denied, is that true?

A. Yes, sir.

MR. MILLER: I have no further questions.

#### CROSS EXAMINATION

#### BY MP. STAMETS:

Mr. Allen, looking at your exhibits here, it appears as though the location of gas zones in this particular pool is a difficult problem. They are not very predictable, is that right?

A. That is correct.

11

12

13

14

15

21

23

		Q		N	OW,	one	thing	I'm	not	cert	tain	about	:, (	đc
you :	feel	that	a	160-	acre	gas	s allow	wable	can	be	prod	luced	wi	th
this	cori	ner lo	oca	tion	on	this	1602							

A As adequately as it could be from a 150 location.

Q You don't believe that would cause any production problems or any waste in the reservoir?

A Sir, the production -- the problem has already been caused. This is an anomolous gas area in this particular position, due to excessive production from offsetting wells, and the problem is already there in this particular instance.

The applicant is seeking only to recover his rightful amount of oil and gas.

MR. STAMETS: Any other questions of the witness?

MR. MILLER: I think, Mr. Hearing Examiner,
I did not move the admission of the two exhibits, and I do
so now.

MR. STAMETS: These exhibits will be admitted.

If there is nothing further, the witness may be excused and the case will be taken under advisement.

(Hearing concluded.)

#### CERTIFICATE

I, SALLY W. BOYD, CSR, DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil 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.

Savy W. Boyd C.S.R.

in Grenoing is	
I do hereby certify that the foregoing is in	/ 6893
I do hereby 6878	on e
I do hereby certify that the forestones in a complete room of Casa to 6878 the Exc. The Exc. The Casa to 6878	•
the Exc. 1.4	~
nearon on DE Examina	•
near Examine	
Rudley M. Division	
Oil Conservation Division	

Dockets Nos. 16-80 and 17-80 are tentatively set for June 4 and 25, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: COMMISSION HEARING - TUESDAY - MAY 20, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 6715: (DE NOVO)

Application of Texaco Inc. for an unorthodox gas well location, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Loomis Fed.

Well No. 1 to be drilled 1600 feet from the North line and 660 feet from the West line of Section 5,

Township 21 South, Range 32 East, South Salt Lake-Morrow Gas Pool, the N/2 of said Section 5 to be
dedicated to the well.

Upon application of Texaco Inc. and Bass Enterprises Production Company this case will be heard De Novo pursuant to the provisions of Rule 1220.

<del>\*</del>

Docket No. 15-80

#### DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 21, 1980

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Mutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for June, 1980, from fifteen prorated pools in Lea. Eddy, and Chaves Counties. New Mexico.
  - (2) Consideration of the allowable production of gas for June, 1980, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 6891: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Midwest Refining Company and all other interested parties to appear and show cause why the State Well No. I located in Unit A of Section 16, Township 33 South, Range 14 West, Hidalgo County, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6859: (Continued from April 9, 1980, Examiner Hearing)

Application of R & G Drilling Company for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 1890 feet from the North line and 1830 feet from the East line of Section 28, Township 28 North, Range 11 West, Rutz-Fruitland Pool, the NE/4 of said Section 28 to be dedicated to the well.

CASE 6886: (Continued from May 7, 1980, Examiner Hearing)

Application of Aminoil USA, Inc. for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the S/2 of Section 10, Township 24 South, Range 28 East, to be dedicated to a well to be drilled at an unorthodox location 2080 feet from the South line and 1773 feet from the East line of said Section 10. 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6884: (Continued from May 7, 1980, Examiner Hearing)

Application of Supron Energy Corporation for compulsory pooling and a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaverde and Dakota forestions underlying the N/2 of Section 4, Township 30 North, Range 11 West, to be dedicated to a proposed dual completion 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6892:

Application of Merrion & Bayless for compulsory pooling, Rio Arriba County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the South
Blanco-Pictured Cliffs Pool underlying the SW/4 of Section 27, Township 24 North, Range 2 West, 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. Also to be considered will be the designation
of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6878:

(Readvertised)

Application of Stevens Oil Company for a non-standard gas proration unit and unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes-San Andres Associated Pool, to be dedicated to its O'Brien "F" Well No. 4 at an unorthodox location 1650 feet from the South line and 2310 feet from the West line of said Section 25.

CASE 6893: Application of Stevens Oil Company to amend Order No. R-5353, Chaves County, New Mexico.

Applicant, in the above-styled cause, seeks a revision of the special rules for the Twin Lakes-San Andres Associated Pool as promulgated by Order No. R-5353 to provide that each well, oil or gas, shall be located no nearer than 330 feet to any quarter-quarter section line, except that any well drilled in a known gas productive area shall be located within 150 feet of the center of the quarter-quarter section.

CASE 6894: Application of Sun Oil Company for an unorthodox well location, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of its JenningsFederal "B" Well No. 1, a Yates test to be drilled 2440 feet from the South line and 2790 feet from
the West line of Section 15, Township 19 South, Range 32 East, Lusk Field, the NE/4 SW/4 to be dedicated to the well.

CASE 6895: Application of Sun Gas Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its J. A. Akens Well No. 10 located in Unit N of Section 3, Township 21 South, Range 36 East, was necessary to effectively and efficiently drain that portion of an existing proration unit which could not be drained by the existing well.

CASE 6896: 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 6897: Application of McCleilan Oil Corporation for two compulsory poolings, Chaves County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests from 1200 feet below the surface to the base of the Abo formation underlying the SW/4 and the SE/4 of Section 30, Township 6 South, Range 26 East, each to be dedicated to a proposed gas well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.

CASE 6898: Application of Conoco Inc. for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Meyer B-28 Well No. 4 to be drilled 560 feet from the North line and 1980 feet from the West line of Section 28, Township 20 South, Range 37 East, Eumont Gas Pool, to be simultaneously dedicated with its Meyer B-28 Well No. 1 in Unit G to the NE/4 and E/2 NW/4 of said Section 28.

CASE 6899: Application of Yates Petroleum Corporation 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 South and East lines of Section 9, Township 17 South, Range 26 East, the E/2 of said Section 9 to be dedicated to the well.

CASE 6900: Application of Yates Petroleum Corporation for a non-standard oil proration unit, unorthodox well location, and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre non-standard oil proration unit comprising the N/2 SE/4 of Section 22, Township 16 South, Range 33 East, Kemmitz Field, to be dedicated to its Sombrero "MS" State Well No. 1 at an unorthodox location 1650 feet from the South and East lines of said Section 22. Applicant also seeks approval for the downhole commingling of Wolfcamp and Cisco production in the wellbore of said well.

- CASE 6901: Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Mississippian formations underlying the E/2 of Section 19, Township 14 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6902: Application of Harvey E. Yates Company for a dual completion, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its

  Young Deep Unit Well No. 1 located in Unit D of Section 10, Township 18 South, Range 32 East, to

  produce gas from the Morrow formation and oil from the Bone Springs formation thru parallel strings of
  tubing.
- CASE 6903: Application of Harvey E. Yates Company for an unorthodox gas well location, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Pennsylvanian
  Hississippian test well to be drilled 660 feet from the South line and 990 feet from the East line of Section 33, Township 13 South, Range 36 East, the S/2 of said Section 33 to be dedicated to the well.
- Application of Harvey E. Yates Company for a unit agreement, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the McDonaid Unit Area, comprising 1,440 acres, more or less, of fee lands in Townships 13 and 14 South, Range 36 East.
- CASE 6905: Application of Harvey E. Yates Company for a unit agreement, Chaves County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the Buffalo Lake Unit Area, comprising 2,560 acres, more or less, of Federal, State, and fee lands in Township 15 South, Range 27 East.

12

13

14

15

16

17

18

19

20

21

22

23

24

25

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

#### EXAMINER HEARING

IN THE MATTER OF:

Application of Stevens Oil Company for )
a non-standard gas proration unit, )
Chaves County, New Mexico.

CASE 6878

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

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

For the Applicant:

ALLY W. BOYD, (3.8.F Rt. i Box 193-B Santa Fe, New Mendos 87301 Phone (303) 435-7409

## INDEX

#### JACK ALLEN

Direct	Examination	by	Mr.	Stevens	
Cross E	xamination b	y M	ir. s	Stamets	13

# EXHIBITS

Applicant Exhibit One, Plat	4
Applicant Exhibit Two, Map	5
Applicant Exhibit Three, C-122	7
Applicant Exhibit Four. Cross Section	

12 13

15 16

17 18

19

20

21

22

23

24

MR. STAMETS: Call next Case 6878.

MR. PADILLA: Application of Stevens Oil Company for a non-standard gas proration unit, Chaves County, New Mexico.

MR. STEVENS: Mr. Examiner, I'm Don Stevens, representing the applicant, Stevens Oil Company, in this case, and co-counsel Don Miller of Santa Fe. We have one witness to be sworn.

MR. STAMETS: Any other appearances in this case?

#### (Witness sworn.)

#### JACK ALLEN

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

#### DIRECT EXAMINATION

#### BY MR. STEVENS:

Would you state your name, your residence occupation, and your relationship to the applicant in this case, please?

My name is Jack Allen, I live in Roswell New Mexico. I'm a consulting geologist in Roswell, and I'm a consulting geologist for the applicant in this case.

14

15

16

17

18

19

20

21

22

23

A Have you previously testified before the Division and had your qualifications accepted thereby?

A. Yes, sir.

MR. STEVENS: Mr. Examiner, are the witness' qualifications acceptable to you?

MR. STAMETS: They are.

A. The applicant seeks approval of a non-standard proration unit in Section 25 of Township 8 South, Range 28 East, being a south half of the northwest quarter and the north half of the southwest quarter, as illustrated on Exhibit Number One, colored yellow, outlined in red.

The well to be designated as the well draining that proration unit is the Stevens Oil Company
O'Brien "F" Well No. 4, outlined -- or circled in red on
Exhibit Number One.

Q Why is this application necessary? Why is this not a standard unit?

A standard proration unit is a governmental quarter section. This is not a governmental quarter section. It's part of two governmental quarter sections.

Q Is there any reason why this couldn't be in the southwest quarter, being a governmental quarter section?

highest portion of the field.

of Section 36.

The proration could not consist of the

You'll note that the wells produce from

You'll note that that particular -- the

a datum of approximately 1300 feet up to a datum of 1425.

The highest structural well in the field so far is the Stevens

Oil Company State "CH" No. 1 in the northwest of the southwest

highest well is a gas well. It was originally completed for

southwest quarter of Section 25 because there are oil wells

already located in that -- in that position, and you cannot

have oil wells and oil wells -- gas wells in the same proration

18

19

20

21

22

23

24

25

2

3

11

12

13

14

15

17

21

22

23

24

25

900,000 cubic feet of gas and probably was in the original gas cap of the pool.

The area to the north, the proration unit under question, is apparently also in a gas cap. The well was drilled originally as an oil well in the normal oil well spacing in the pool. It was expected that it would be an oil well when it was spudded, and it is in a normal location for an oil well, according to the field rules.

You'll note that the subsurface datum of the No. 4 Well is exactly the same as the well No. 2, directly south of it, and it's only slightly higher than the No. 4 Harlow O'Brien Well.

It also is down dip structurally from the Stevens O'Brien "F" No. 1 and No. 3 Wells, which were oil wells.

Also illustrated on this map is a line running diagonally northwest, suggesting high permeability to the northeast of the line and moderate permeability to the southwest of that line. This is established by relative productivity of the wells. The wells to the northeast of that particular line seem to have a higher productive capacity; therefor better permeability. This is based on production records.

The wells to the southwest of that line are moderate wells. They certainly don't have the productive

capacity of the other wells.

The second diagonally northwest running line is a line which separates relatively high water cutting producing wells with low water cutting producing wells. In addition to productive capacity the characteristics of these wells when they were drilled, the drilling characteristics, suggested a significant amount of additional permeability from fracturing in those wells as the No. 4 "F" did. While it was drilling there was a significant amount of torquing and bouncing of the bit in the drill pipe. Our drilling rate was better than average, and the cuttings actually suggest a great deal of fracturing in the reservoir.

Is this permeability evidenced by the flow rates of the well itself?

A Yes, sir. The No. 4 O'Brien "F" has an unusually high capability of producing. During production tests the well flowed approximately 2-1/2 million cubic fect of gas a day on a 3/4 inch choke.

Q Is that information shown in Exhibit
Number Three?

Yes, sir.

Exhibit Number Three is a New Mexico Oil

Conservation Commission Form C-122, the multipoint and 1-point

back pressure test for a gas well, of the Stevens Oil Com
back pressure test for a gas well, of the Stevens Oil Com
pany O'Brien "F" No. 4 Well, located in Section 25 of Township

12

13

flow data that the well was flowed at varous chokes from 1/8th of an inch to 3/4 of an inch. The flow rates varied from 144,000 cubic feet of gas per day to 2,755,000 cubic feet of gas a day on the 3/4 inch choke. This has been interpreted for a calculated

8 South, 28 East, the subject well. You will note in the

absolute open flow of 6.8 million cubic feet per day, which is exceptionally high for a San Andres well.

Do you have bottom hole pressure information on that and its significance?

Yes, sir. Bottom hole pressure of the "F" 4 Well at the beginning of this test was 616 pounds. 616 pounds is a subnormal pressure in the field. Most wells that have been measured in the field before initial production are on the 850 to 950 pounds category.

It would appear as though this well is subnormal in bottom hole pressure due to production from adjacent wells.

How do you explain, Mr. Allen, the fact that you have a gas well down dip from oil wells in the same reservoir?

This is highly unusual and it's very difficult to explain, but I would attribute it to the exceptional permeability in the particular reservoir and the possibility of drawdown from adjacent wells.

And that critical phase has been reached

ALL'I W. BOYD, C.S.R. Rt. 1 Box 193-B Satti: Fe, New Mexico 57201 Phone (505) 455-7409

11

12

13

16

17

20

21

22

23

24

in that part of the reservoir.

Ω In your opinion is the entire proposed proration unit underlain by gas?

A. It would appear so from the structure contours and permeability barriers that have been projected.

Q Referring to what has been marked as Exhibit Number Four, would you explain it, please?

A. Yes, sir.

section of the Twin Lakes-San Andres Pool. It is cross section A-B, as indicated on the index maps attached to the cross section. The well in question is the well that's colored red on the -- in Section 25. It also is the Well Number A on the cross section on the left, and the cross section runs diagonally southeast through the Harlow Corporation O'Brien Fee 25 No. 1 Well, southeastward from there, the Stevens Company CITGO "A" State No. 7 Well. These three wells are all in the highly permeable zone of the field.

You'll note that I have indicated on the cross section -- oh, the cross section is datumized on sea level datum illustrating the structural configuration of the pool, of this portion of the pool. I have marked the top of P-1, the first porosity zone in the field. The base of P-1, which is an anhydrite marker and an effective seal between P-1 and the second porosity zone, which is designated as P-2

10

11

14

15

16

17

18

îÛ

20

21

22

23

24

25

2

3

P-2 carries water in all of the wells in in the field. the field. P-1 is the productive zone in the field and all wells indicated as producing wells in the field are producing from P-1.

Treatment is similar in all three of these wells. You'll note that in the CITGO State "A" No. 7 had 24 shots, 6000 gallons of acid in the interval as indicated. The Harlow O'Brien 25 No. 1 had 23 shots, acidized with 6000 gallons of acid, and the Stevens O'Brien "F" No. 4 had 22 shots, acidized with 6000, so the perforations are all in the same place, approximately the same number of shots, and the same acid treatment, giving different re-12 13

In the lower structure wells the wells sults. flowed approximately the allowable, on a relatively small choke. The choke size and back pressures indicated that the wells could substantially flow at a much greater volume. IP on the structurally highest well, the O'Brien "F" No. 4, the calculated absolute open flow of 6.8 million per day, also indicating high permeability.

Mr. Allen, if this application were denied, could you give your opinion as to the effect thereof? If the application were denied, it would contribute to economic waste in the area. It would probably force the operator to drill an additional well to drill an area that would not necessarily need to be drained by the additional well.

And it is your opinion that one well -is it your opinion that one well would drain 160 acres?

A gas well should, yes. Normal statewide rules suggest this.

Nere these Exhibits One, Two, Three, Four prepared by you or under your direction?

Yes, sir.

MR. STEVENS: Mr. Examiner, we move the introduction of Exhibits One through Four, and we have no further questions of the witness at this time.

MR. STAMETS: These exhibits will be admitted.

# CROSS EXAMINATION

BY MR. STAMETS:

well, is this an unorthodox gas location?

By field rules if it were drilled specifically as a gas well, yes, sir, it would be considered unorthodox. It should have been drilled 660 from the line.

I believe the general rules for associated pools under which this is covered, provide that the

\_ !

4

7

\_

•

10

11

13

12

14

15

16 17

\*\*

18

-

**20** 

21

**2**2

23

24

25

•

7

8

9

10 11

12

13

14

15

16

17

18

19

20

21

22

24

well should be located within 150 feet of the center of the quarter section wherein it is located.

A But this well was originally drilled as an oil well.

Q. I don't believe that the rules provide for any exceptions under those conditions.

MR. STEVENS: Mr. Examiner, I have --

MR. STAMETS: I'm not certain about that.

Do you have another thought?

MR. STEVENS: We have the field rules for Twin Lakes-San Andres Pool, Order No. R-4102.

MR. STAMETS: Those are now covered under

5353.

MR. STEVENS: Did they subvert and take

over?

HR STAMETS: Yeah, subvert isn't the

word.

MR. STEVENS: The application was made on the basis of Twin Lakes-San Andres Pool Rules, which provide that if the well were originally staked as an oil well, that it would not be a non-standard proration unit, and the evidence we present, of course, indicates that it was staked as an oil well for obvious good reasons, inasmuch as the datum expected to be decided. You wouldn't expect any gas well down dip from oil. Unfortunately, we did.

ALLY W. BC/VD, C.S.R Rt. 1 Box 193-B Santa Fe, New Mexico 57301 Phone (305) 455-7409

13

21

22

23

25

A There was no indication that there would be a gas well at this location. In addition to the structural configuration, GORs in offset wells are well below the 2000-to-1 limits that are the field rules. As a matter of fact, the "F" No. 2 Well had a GOR of 351-to-1, the direct south offset.

The southeast offset, the Harlow Well No. 1 had a GOR of 327-to-1, and the newly completed Harlow No. 4 has a GOR of 803-to-1.

I believe you have been caught in Catch 22 on this. Just reviewing the Order R-5353, which is now the controlling order, it does not appear as though there is any exception provided either administratively or authomatically. It would appear as though what we would need to do is re-advertise this case to provide for an unorthodox location for the well, and I will assume that the testimony given here today will be sufficient in that case. No one will need to appear, so long as you don't have any opposition when the case is re-opened.

What is the location of the well?

MR. STEVENS: The location of the well

is 2310 from the west line and 1650 feet from the south line,
which makes it 330 from the south and east of the 40-acre
unit, which was the same spacing pattern that had been adopted
by the operator and the applicant, and other operators in the

3

•

•

,

عد

11

13

\_

17

18

20 21

19

22

23

25

north part of the field for oil wells: informally adopted, adopted by use.

MR. STAMETS: Well, we'll see if we can get this re-advertised as quickly as possible. Looking at your Exhibit Number Two, looking at the southern gas cap, would it be conceivable that you might have some oil wells in the northern part of your northern gas cap?

It may be possible but at this particular point, without drilling additional wells, there's no way to tell.

MR. STAMETS: Any other questions of the witness? He may be excused.

And the case will be continued and re-

advertised.

(Hearing concluded.)

LY W. BOYD, C.S. Rt. 1 Box 199-3 An Pe, New Member 87301

ege \_\_\_\_\_\_15\_\_

## REPORTER'S CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that
the foregoing and attached Transcript of Hearing before the
Oil 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.

LY W. BOYD, C.S. Rt. 1 Box 197-8 mate Fe, New Mentico 57301 Phone (305) 455-7409

11

12

13

19

20

21

22

23

do here of assert that the foregoing a comple e record of the proceedings in the Examiner hearing of Case No.

19

19

19

19

19

19

19

Oil Conservation Division

MALLY W. BIDYD, C.S.R.
Rt. 1 Bux 199-B
Santa Fe, New Merico 27901
Phose (503) 455-7409

12

13

17

20

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

#### EXAMINER HEARING

IN THE MATTER OF:

Application of Stevens Oil Company for )
a non-standard gas proration unit,
Chaves County, New Mexico.

CASE 6878

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

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

For the Applicant:

INDEX JACK ALLEN 3 Direct Examination by Mr. Stevens 11 Cross Examination by Mr. Stamets EXHIBITS 12 13 Applicant Exhibit One, Plat Applicant Exhibit Two, Map Applicant Exhibit Three, C-122 Applicant Exhibit Four, Cross Section 17

3

11 12

13

14

16

15

17 18

19

20 21

23

24

22

25

MR. STAMETS: Call next Case 6878.

MR. PADILLA: Application of Stevens Oil

Company for a non-standard gas proration unit, Chaves County, New Mexico.

MR. STEVENS: Mr. Examiner, I'm Don

Stevens, representing the applicant, Stevens Oil Company, in this case, and co-counsel Don Miller of Santa Fe. We have one witness to be sworn.

MR. STAMETS: Any other appearances in

this case?

(Witness sworn.)

## JACK ALLEN

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

## DIRECT EXAMINATION

Would you state your name, your residence BY MR. STEVENS: occupation, and your relationship to the applicant in this case, please?

My name is Jack Allen, I live in Roswell New Mexico. I'm a consulting geologist in Roswell, and I'm a consulting geologist for the applicant in this case.

A Have you previously testified before the Division and had your qualifications accepted thereby?

A. Yes, sir.

MR. STEVENS: Mr. Examiner, are the witness' qualifications acceptable to you?

MR. STAMETS: They are.

Q Briefly would you state what the applicant seeks at this hearing, Mr. Allen?

A The applicant seeks approval of a non-standard proration unit in Section 25 of Township 8 South, Range 28 East, being a south half of the northwest quarter and the north half of the southwest quarter, as illustrated on Exhibit Number One, colored yellow, outlined in red.

The well to be designated as the well draining that proration unit is the Stevens Oil Company
O'Brien "F" Well No. 4, outlined -- or circled in red on
Exhibit Number One.

Q Why is this application necessary? Why is this not a standard unit?

A A standard proration unit is a governmental quarter section. This is not a governmental quarter section. It's part of two governmental quarter sections.

Is there any reason why this couldn't be in the southwest quarter, being a governmental quarter section?

14

••

17

18

20

21

22

2

11

12

13

14

15

16

17

18

20

21

22

23

24

The proration could not consist of the southwest quarter of Section 25 because there are oil wells already located in that -- in that position, and you cannot have oil wells and oil wells -- gas wells in the same proration

- That's under the field rules?
- Yes, sir.
- Of the Twin Lakes-San Andres Associated Pool?
  - Rìght.
- Referring then to Exhibit Number Two, would you explain it, please?

Exhibit Number Two is a structure contour map, contoured on the top of the P-1 porosity zone, which is the producing zone in the field. The contour interval is 25 feet. The structure datum is a positive datum above sea level, therefor the highest numbers are the structurally highest portion of the field.

You'll note that the wells produce from a datum of approximately 1300 feet up to a datum of 1425. The highest structural well in the field so far is the Stevens Oil Company State "CH" No. 1 in the northwest of the southwest of Section 36.

You'll note that that particular -- the highest well is a gas well. It was originally completed for

12

13

17

20 21

22

900,000 cubic feet of gas and probably was in the original gas cap of the pool.

The area to the north, the proration unit under question, is apparently also in a gas cap. The well was drilled originally as an oil well in the normal oil well spacing in the pool. It was expected that it would be an oil well when it was spudded, and it is in a normal location for an oil well, according to the field rules.

You'll note that the subsurface datum of the No. 4 Well is exactly the same as the well No. 2, directly south of it, and it's only slightly higher than the No. 4 Harlow O'Brien Well.

It also is down dip structurally from the Stevens O'Brien "F" No. 1 and No. 3 Wells, which were oil wells.

Also illustrated on this map is a line running diagonally northwest, suggesting high permeability to the northeast of the line and moderate permeability to the southwest of that line. This is established by relative productivity of the wells. The wells to the northeast of that particular line seem to have a higher productive capacity; therefor better permeability. This is based on production records.

The wells to the southwest of that line are moderate wells. They certainly don't have the productive

6

7

9

10

12

14

13

16

15

17

20

21

23

25

24

capacity of the other wells.

The second diagonally northwest running line is a line which separates relatively high water cutting producing wells with low water cutting producing wells. In addition to productive capacity the characteristics of these wells when they were drilled, the drilling characteristics, suggested a significant amount of additional permeability, from fracturing in those wells as the No. 4 "F" did. While it was drilling there was a significant amount of torquing and bouncing of the bit in the drill pipe. Our drilling rate was better than average, and the cuttings actually suggest a great deal of fracturing in the reservoir.

Q Is this permeability evidenced by the flow rates of the well itself?

A Yes, sir. The No. 4 O'Brien "F" has an unusually high capability of producing. During production tests the well flowed approximately 2-1/2 million cubic feet of gas a day on a 3/4 inch choke.

Q Is that information shown in Exhibit Number Three?

Yes, sir.

Exhibit Number Three is a New Mexico Oil

Conservation Commission Form C-122, the multipoint and 1-point
back pressure test for a gas well, of the Stevens Oil Company O'Brien "F" No. 4 Well, located in Section 25 of Township

LLY W. BOYD, C.S. Rt. 1 Box 193-8 Sante Fe, New Number 37301

The Care of the

AI.LY W. B(JYI), C.S.R Rt. 1 Box 193-B Santa Fe, New Men co 87301 Phone (303) 43: -7419 10

î١

12

13

14

15

16

17

18

21

22

23

flow data that the well was flowed at varous chokes from 1/8th of an inch to 3/4 of an inch. The flow rates varied from 144,000 cubic feet of gas per day to 2,755,000 cubic feet of gas a day on the 3/4 inch choke.

8 South, 28 East, the subject well. You will note in the

This has been interpreted for a calculated absolute open flow of 6.8 million cubic feet per day, which is exceptionally high for a San Andres well.

Q Do you have bottom hole pressure information on that and its significance?

"F" 4 Well at the beginning of this test was 616 pounds.
616 pounds is a subnormal pressure in the field. Most wells that have been measured in the field before initial production are on the 850 to 950 pounds category.

It would appear as though this well is subnormal in bottom hole pressure due to production from adjacent wells.

A How do you explain, Mr. Allen, the fact that you have a gas well down dip from oil wells in the same reservoir?

A. This is highly unusual and it's very difficult to explain, but I would attribute it to the exceptional permeability in the particular reservoir and the possibility of drawdown from adjacent wells.

And that critical phase has been reached

•

in that part of the reservoir.

In your opinion is the entire proposed proration unit underlain by gas?

A. It would appear so from the structure contours and permeability barriers that have been projected.

Referring to what has been marked as Exhibit Number Four, would you explain it, please?

A Yes, sir.

section of the Twin Lakes-San Andres Pool. It is cross section A-B, as indicated on the index maps attached to the cross section. The well in question is the well that's colored red on the -- in Section 25. It also is the Well Number A on the cross section on the left, and the cross section runs diagonally southeast through the Harlow Corporation O'Brien Fee 25 No. 1 Well, southeastward from there, the Stevens Company CITGO "A" State No. 7 Well. These three wells are all in the highly permeable zone of the field.

You'll note that I have indicated on the cross section -- oh, the cross section is datumized on sea level datum illustrating the structural configuration of the pool, of this portion of the pool. I have marked the top of pool, the first porosity zone in the field. The base of P-1, which is an anhydrite marker and an effective seal between P 1 and the second porosity zone, which is designated as P-2

ALLY W. BOYD, C.S.
RI. 1 BM 193-B
Santa Pe, New Merico 87301
Phone (303) 455-7409

\_

in the field.

P-2 carries water in all of the wells in the field. P-1 is the productive zone in the field and all wells indicated as producing wells in the field are producing from P-1.

Treatment is similar in all three of these wells. You'll note that in the CITGO State "A" No. 7 had 24 shots, 6000 gallons of acid in the interval as indicated.

The Harlow O'Brien 25 No. 1 had 23 shots, acidized with 6000 gallons of acid, and the Stevens O'Brien
"F" No. 4 had 22 shots, acidized with 6000, so the perforations are all in the same place, approximately the same number of shots, and the same acid treatment, giving different results.

In the lower structure wells the wells flowed approximately the allowable, on a relatively small choke. The choke size and back pressures indicated that the wells could substantially flow at a much greater volume. The IP on the structurally highest well, the O'Brien "F" No. 4, the calculated absolute open flow of 6.8 million per day, also indicating high permeability.

Mr. Allen, if this application were denied, could you give your opinion as to the effect thereof?

A If the application were denied, it would contribute to economic waste in the area. It would probably

ALLY W. BOYD, C.S.
Rt. 1 Not 193-B
Santa Fe, New Mendoo 57301
Phone (313) 455-7409

3

5

7

10

11

12

13

74

15

16

17

18

19

20

21

22

23

24

25

force the operator to drill an additional well to drill an area that would not necessarily need to be drained by the additional well.

And it is your opinion that one well -is it your opinion that one well would drain 160 acres?

A gas well should, yes. Normal statewide

rules suggest this. Were these Exhibits One, Two, Three, Four Q. prepared by you or under your direction?

Yes, sir.

MR. STEVENS: Mr. Examiner, we move the introduction of Exhibits One through Four, and we have no further questions of the witness at this time.

MP. STAMETS: These exhibits will be ad-

mitted.

## CROSS EXAMINATION

Mr. Allen, to your knowledge has the --BY MR. STAMETS:

well, is this an unorthodox gas location?

By field rules if it were drilled specifically as a gas well, yes, sir, it would be considered unorthodox. It should have been drilled 660 from the line.

I believe the general rules for associated pools under which this is covered, provide that the

11

12

13

14

15

16

17

18

19

20

21

22

23

24

ALLY W. BOY!), C.S.R. Rt. 1 Box 193-8 Santa Pe, New Markov 87501 Phone (305) 455-7409 well should be located within 150 feet of the center of the quarter section wherein it is located.

A But this well was originally drilled as an oil well.

Q I don't believe that the rules provide for any exceptions under those conditions.

MR. STEVENS: Mr. Examiner, I have --

MR. STAMETS: I'm not certain about that.

Do you have another thought?

MR. STEVENS: We have the field rules for Twin Lakes-San Andres Pool, Order No. R-4102.

MR. STAMETS: Those are now covered under

5353.

MR. STEVENS: Did they subvert and take

over?

MR STAMETS: Yeah, subvert isn't the

word.

MR. STEVENS: The application was made on the basis of Twin Lakes-San Andres Pool Rules, which provide that if the well were originally staked as an oil well, that it would not be a non-standard proration unit, and the evidence we present, of course, indicates that it was staked as an oil well for obvious good reasons, inasmuch as the datum expected to be decided. You wouldn't expect any gas well down dip from oil. Unfortunately, we did.

SALLY W. BOYD, C.S.F Rt. 1 Box 193-B Senta Fe, New Messics (7361 Phone (203) 454-740)

11

12

16

17

19

21

22

A. There was no indication that there would be a gas well at this location. In addition to the structural configuration, GORs in offset wells are well below the 2000-to-1 limits that are the field rules. As a matter of fact, the "F" No. 2 Well had a GOR of 351-to-1, the direct south offset.

The southeast offset, the Harlow Well No. 1 had a GOR of 327-to-1, and the newly completed Harlow No. 4 has a GOR of 803-to-1.

I believe you have been caught in Catch 22 on this. Just reviewing the Order R-5353, which is now the controlling order, it does not appear as though there is any exception provided either administratively or authomatically. It would appear as though what we would need to do is re-advertise this case to provide for an unorthodox location for the well, and I will assume that the testimony given here today will be sufficient in that case. No one will need to appear, so long as you don't have any opposition when the case is re-opened.

What is the location of the well?

MR. STEVENS: The location of the well
is 2310 from the west line and 1650 feet from the south line,
which makes it 330 from the south and east of the 40-acre
unit, which was the same spacing pattern that had been adopted
by the operator and the applicant, and other operators in the

25

11

12

13

14

15

16

17

18

19

20

21

22

23

24

north part of the field for oil wells; informally adopted, adopted by use.

MR. STAMETS: Well, we'll see if we can get this re-advertised as quickly as possible. Looking at your Exhibit Number Two, looking at the southern gas cap, would it be conceivable that you might have some oil wells in the northern part of your northern gas cap?

It may be possible but at this particular point, without drilling additional wells, there's no way to

tell. MP. STAMETS: Any other questions of the witness? He may be excused.

And the case will be continued and readvertised.

(Hearing concluded.)

## REPORTER'S CERTIFICATE

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

Same w. Boyd C.s.R.

I do he was speake that the foregoing is a comple e record of the proceedings in the Examiner hearing of Case No. 6878 , Examiner

Oil Conservation Division

11

12

13

20 21 **22** 

17

23

Unorthodox Location
1650/5
23/0/W

Dockets Nos. 13-50 and 14-80 are tentatively set for May 7 and 21, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 23, 1980

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 6803: (Continued from February 13, 1980, Examiner Hearing)

S. Paring T.

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit EPROC Associates, Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why its Monsanto State H Well No. 1 located in Unit E of Section 2, Township 30 North, Range 16 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 6366: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Hare and McCoy and all other interested parties to appear and show cause why the H. L. Hare Well No. 2 located in Unit B of Section 23, Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6867: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit all interested parties to appear and show cause why the following abandoned wells drilled by unknown party or parties and located in Township 29 North, Range Il West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program: a well in the SW/4 of Section 24, a well in the SE/4 of Section 22, and a well in the SE/4 of Section 28.
- CASE 6850: (Continued from April 9, 1980, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Jack F. Grimm, N. B. Hunt, George R. Brown, Am-Arctic, Ltd., The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Mobil 32 Well No. 1 located in Unit D of Section 32, Township 25 South, Range 1 East, Dona Ana County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- Application of Bass Enterprises Production Company for a dual completion, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its

  Bass State 36 Well No. 1 located in Unit E of Section 36, Township 15 South, Range 34 East, to

  produce oil from the Townsend-Wolfcamp Pool and gas from an undesignated Morrow pool thru the tubing
  and casing-tubing annulus, respectively, by means of a cross-over assembly.
- CASE 6871: Application of Bass Enterprises Production Company to amend Order No. R-5693, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-5693 to remove the restriction as to the time limit in which salt water may be disposed into Big Eddy Unit Well No. 56 located in Unit G of Section 35, Township 21 South, Range 28 East.
- CASE 6872: Application of Amoco Production Company for a dual completion, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its

  State "HQ" Well No. 1 located in Unit P of Section 26, Township 18 South, Range 34 East, Airstrip
  Field, to produce Bone Springs and Wolfcamp oil thru parallel strings of tubing.
- CASE 6873: Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Travis Deep
  Well No. 5, a Horrow test to be drilled 660 feet from the South line and 1650 feet from the East
  line of Section 12, Township 18 South, Range 28 East, the S/2 of said Section 12 to be dedicated to
  the well.
- CASE 6874: Application of HNG Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the 3/2 of Section 6, Township 22 South, Range 35 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

#### CASE 6853: (Continued from April 9, 1980, Examiner Hearing)

Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Cha-Gallup Pool underlying the N/2 NE/4 of Section 18, Township 29 North, Range 14 West, 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

- CASE 6875: Application of Maurice L. Brown Co. fer compulsory pooling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the SE/4 NW/4 of Section 4, Township 9 South, Range 34 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6876: Application of Maurice L. Brown Co. for compulsory pooling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the VadaPennsylvanian Pool underlying the SW/4 of Section 5, Township 9 South, Range 34 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. Also to be considered will be the designation of
  applicant as operator of the well and a charge for risk involved in drilling said well.

#### CASE 6467: (Reopened and Readvertised)

In the matter of Case 6467 being reopened pursuant to the provisions of Order No. R-5958 which order created the Grama Ridge-Bone Spring Pool in Lea County with temporary special rules therefor providing for 160-acre spacing. All interested parties may appear and show cause why the Grama Ridge-Bone Spring Pool should not be developed on 40-acre spacing units.

- CASE 6877: Application of Florida Exploration Company for compulsory pooling and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Ellenburger formations underlying the N/2 of Section 11, Township 25 South, Range 35 East, to be dedicated to a well to be drilled at an unorthodox location 1200 feet from the North and West lines of said Section 11. 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

  Auditural Metal Letalican.
- CASE 6878: Application of Stevens Oil Company for a non-standard gas proration unit. Chaves County, New Mexico.

  Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the N/2 SV/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes-San Andres Associated Pool, to be dedicated to its O'Brien "F" Well No. 4-located in Unit & of said Section 25.

  Out and the section of Stevens Oil Company for a non-standard gas proration unit. Chaves County, New Mexico.

  Application of Stevens Oil Company for a non-standard gas proration unit. Chaves County, New Mexico.
- CASE 6879: Application of Jake L. Hamon for a tubingless completion, Lea County, New Mexico.

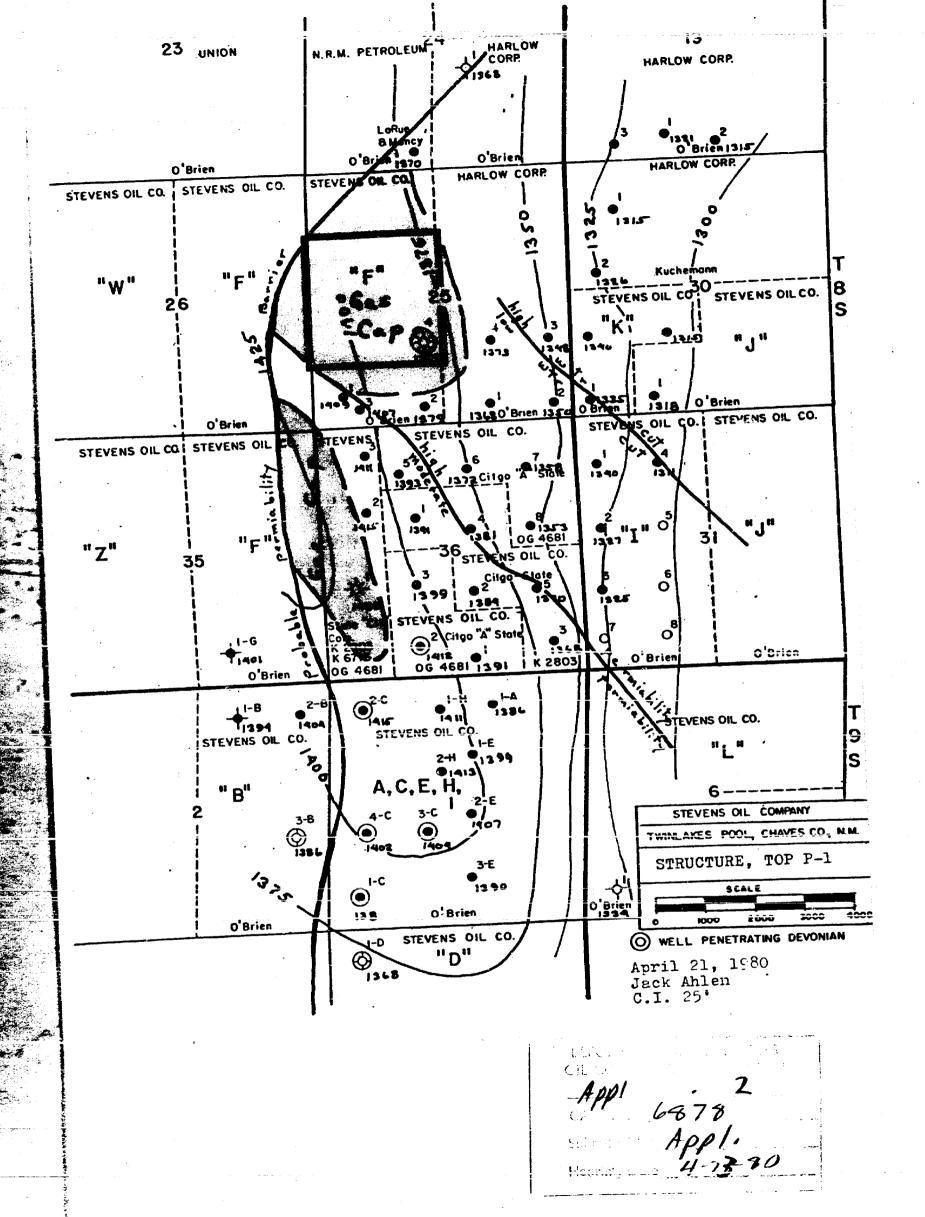
  Applicant, in the above-styled cause, seeks authority to produce his Amerada Federal Well No. 2 located in Unit F of Section 17, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, thru 4 1/2-inch drill pipe cemented in the hole.
- CASE 6861: (Continued from April 9, 1980, Examiner Hearing)

Application of Zia Energy, Inc. for pool creation, special pool rules, and an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres oil pool for its State "C" Well No. 1 located in Unit F of Section 17, Township 22 South, Range 37 East, and special rules therefor, including a provision for a limiting gas-oil ratio of 10,000 to 1. Applicant further seeks a new onshore reservoir determination for said State "C" Well No. 1.

#### CASE 6837: (Continued from April 9, 1980, Examiner Hearing)

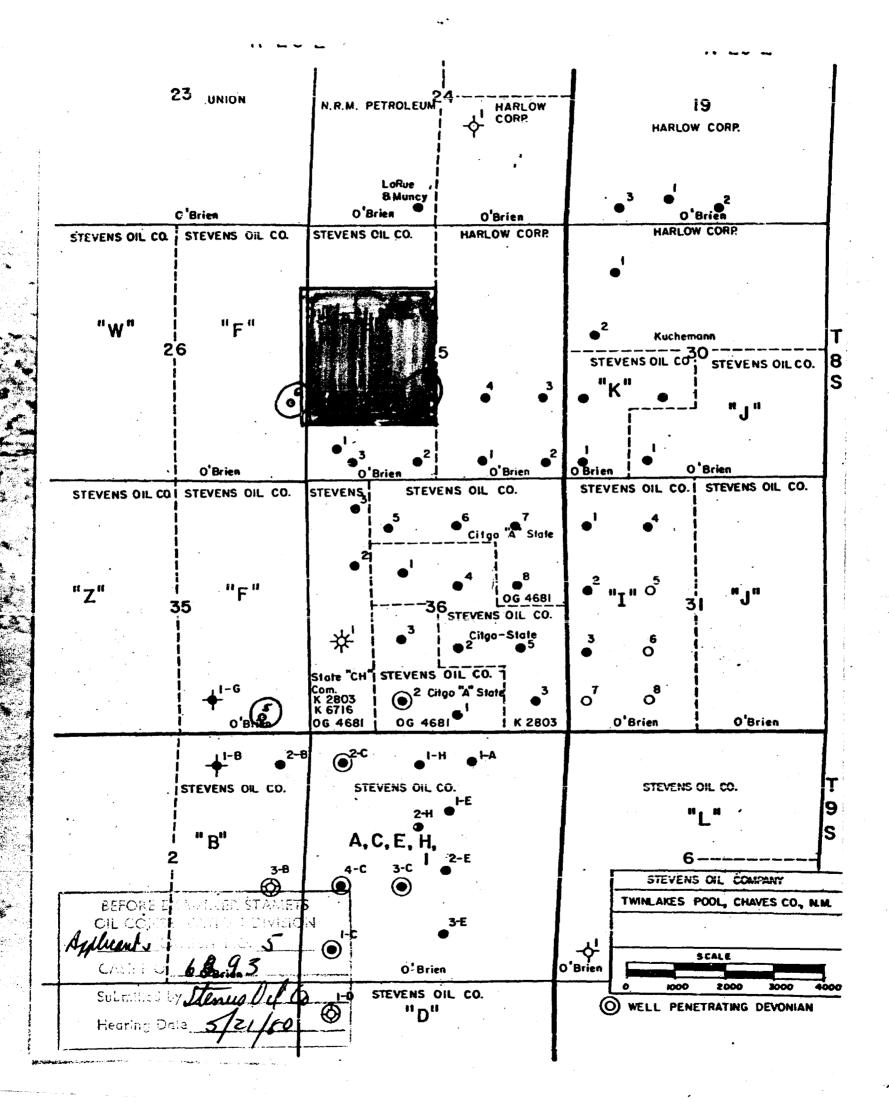
Application of Curtis Little for compulsory pooling, Rio Arriba County, New Mexico.

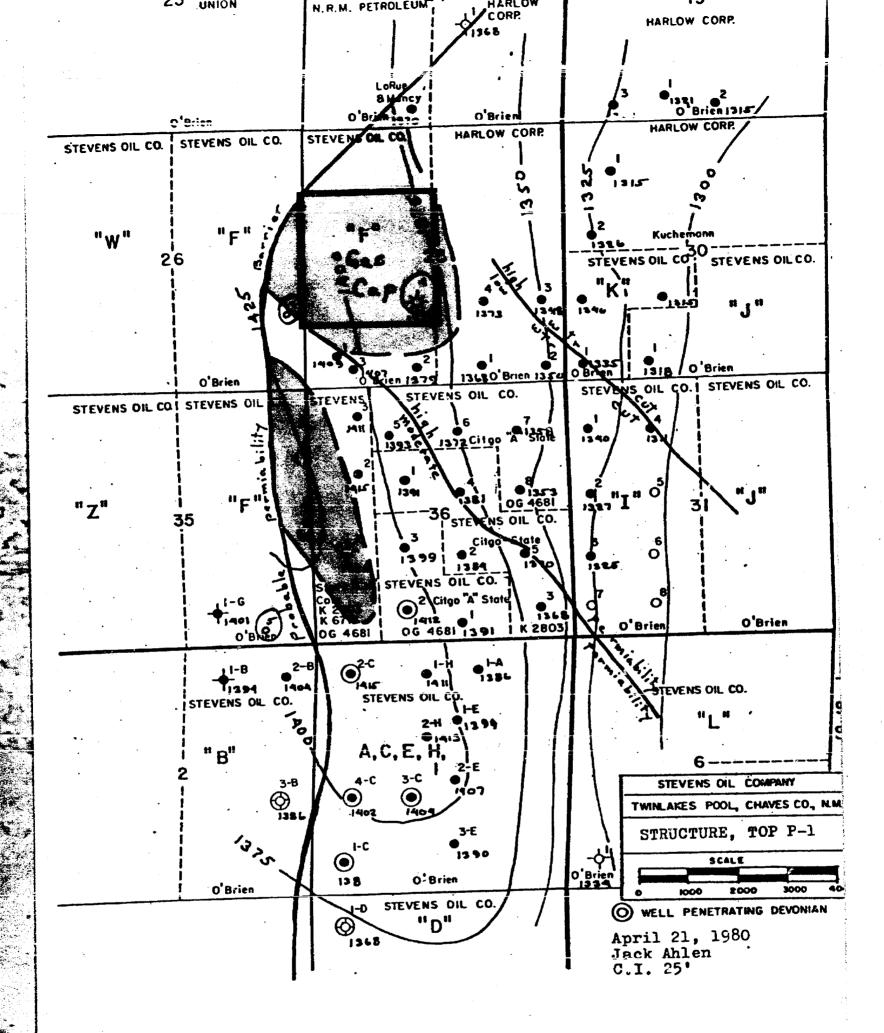
Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 7, Township 25 North, Range 3 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.



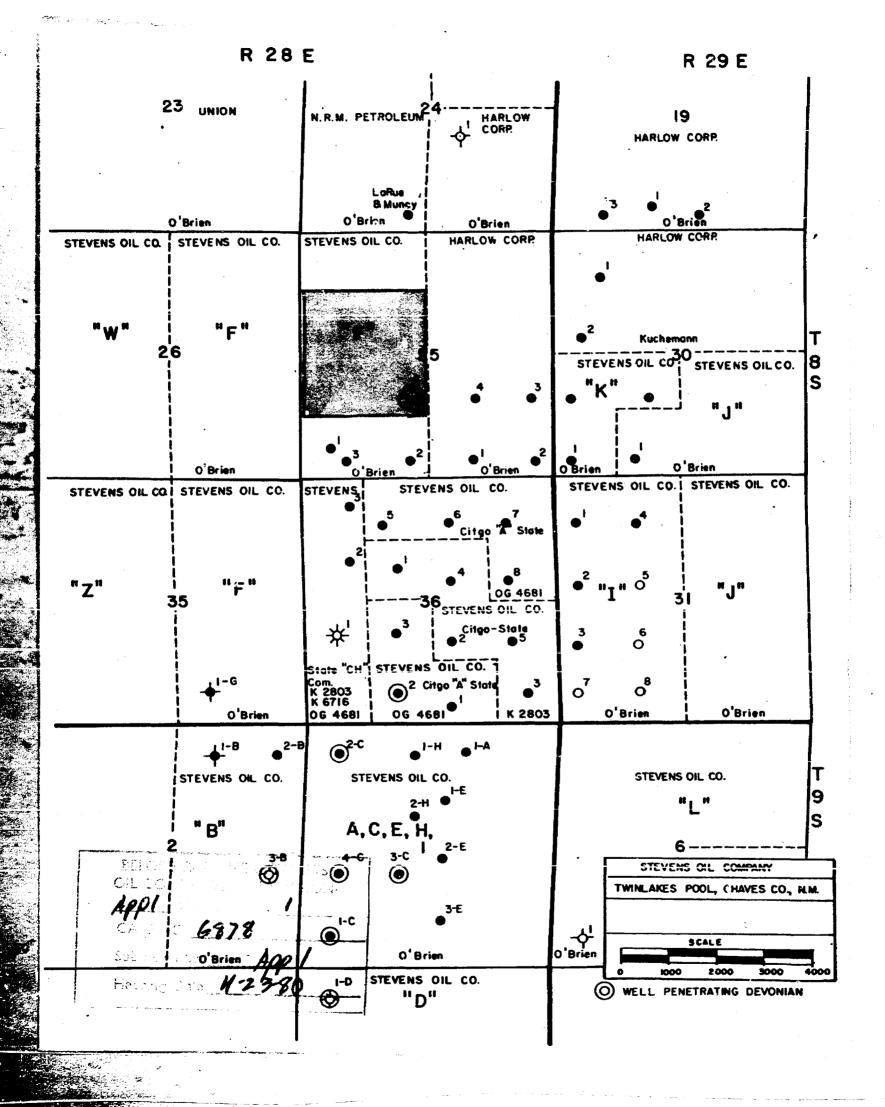
## NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

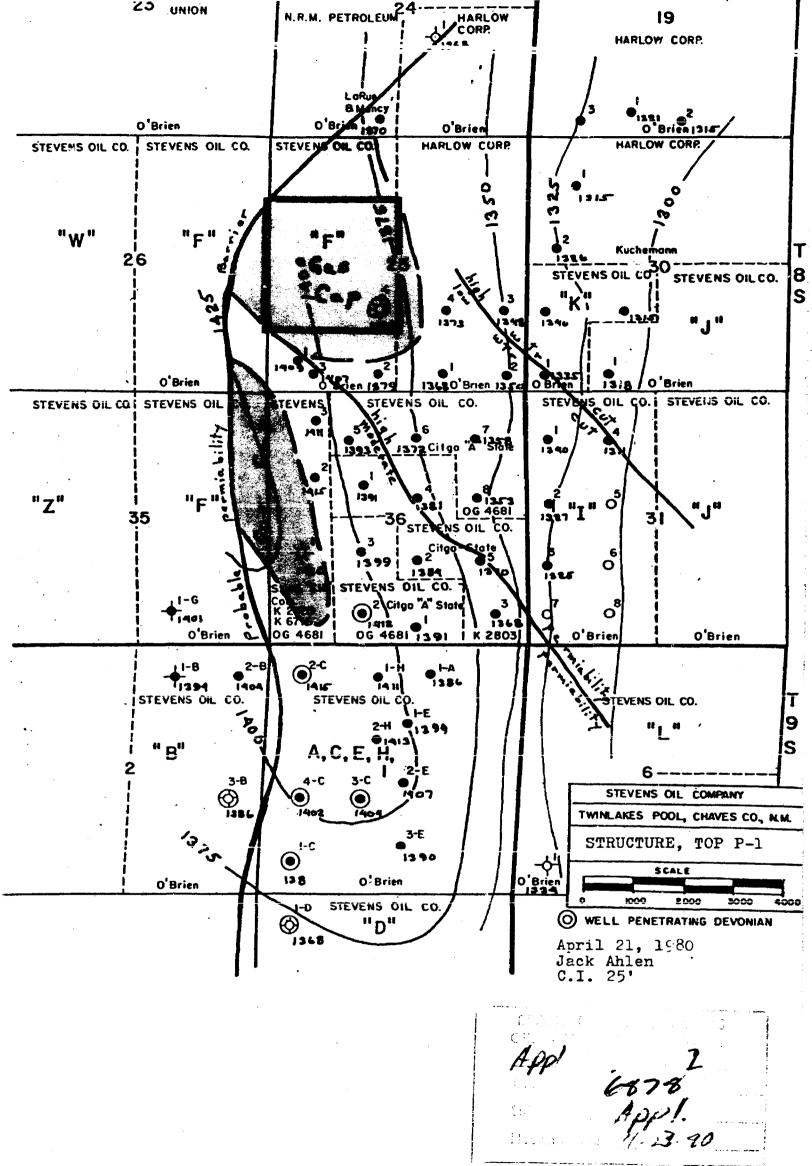
Type Test	Initial	٢	Annual		Spe	ciol	7-st Date 3-30	- 80					
Company	ction												
STEVENS CIL COMPANY					IR .								
Twin Lukes Formation					A		Unii						
Completion Date		Total Depth		Plug Bac	ANDRES_ k TO		Elevation		Farm or i	Lease Nar			
3-21-80		2770			2760		3923.3	GL	0'	BRIEN	"F"		
Cag. Size	Wi.	d	Set At	Perforation					Well No.				
4 1/2 The, Size	11.60	4.000	2770 Set At	Frem 2	566		2598		Unit	6 <b>0</b> c.	Twp. Rue.		
2 3/8 Type Well = Sing	4,60	2.375	2595	From	OPEN	Т.	• END			25	8S 28F		
Type Well - Sing	ile — Bradenhea	d = G.G. or G.(			Packer S	M AL			County				
SINGLE Freducing Thru	Reser	voir Temp. *F	Mean An	nual Temp. °F	Boro, Pre		P		CHA	VES			
TUBING					l .	13,2   % H <sub>2</sub> S   Prover				NEW MEXICO			
L	н	Gq	% CO <sub>2</sub>	* N 2	<del>*</del> }	% H <sub>2</sub> S	Pre	184			Taps		
-2565	2566	808	8.2	92 18	637								
Prover	A	LOW DATA	Diff.	Temp.	TUB		DATA		ASING D		Duration		
NO. Line	X Size	p.s.i.q.	h <sub>w</sub>	*F	p.s.t.		Temp.	Pre p.s.		Temp. * F	Flow		
SI					568								
1. 2 X 1 2. 2 X 1		455		61	455		<del> </del>	-			30 MIN.		
2. 2 X 1 3. 2 X 7	74 716	420 453	<b></b>	65	531 468		<del> </del>	<del> </del>			30 MIN.		
4. 2 × 3		243		60	315						30 MIN.		
5.							L		L				
			RATE	E OF FLOW		ATIO		<del></del>		Т			
Coeffic	1 -	√h <sub>w</sub> P <sub>m</sub>	Press		w Temp. Factor		Gravity Factor C		Super mpress.	R	Rate of Flow		
NO. (24 Ho			Pn		Ft.	<b> </b>	Fq	Fac	tor, Fpv	<u> </u>	Q. McId		
2.648			468.2		990		112		.043		44		
2. 1.087 3. 3.408		······································	433.2		952 952	_	112 112		038		4 <u>1</u> 332		
4. 9.453			256.2					023					
5.	<del></del> -					<u> </u>		<u>ــــــــــــــــــــــــــــــــــــ</u>		<u> </u>	<del></del>		
10. Pr	Temp. *R	Te	z	Gas Liquid Hy A.P.I. Gravity							Mcf/bbi.		
60	521	1.38	919	Specific Gravi				.808		xxx	XXXXXX		
255	525	1.39	928 Specific Gravity Flowing Fluid XXXXX										
3. <u>.60</u> 4. <u>.33</u>	525 520	1.39 1.38	.921 .956	Critical Press Critical Temp		·	<u>782</u> 378		P.S.I.A	-	P.S.I.A.		
5.				Carricul 1 amp	o. w #				*	Pri sanja sa s	Pl		
Pc 581.2	Pc <sup>2</sup> 337.8		_9 _4	(1) P <sub>E</sub> 2		2	<u> </u>	- <u>.</u> [	P_ 2	<b>ገ</b> ,	2_475		
NO P <sub>t</sub> <sup>2</sup>	468.5	P <sub>w</sub> <sup>2</sup> 219.5	$\frac{R^2 - R^2}{118.3}$	F2 - K	<del>?</del> -	+	An	2/1-	P <sub>c</sub> <sup>2</sup> - F <sub>c</sub> <sup>2</sup>	1.5	3		
2	547.4	299.7	38.1			1	THE	<u>~                                    </u>	/ /				
3	521,5	272,1	65 7	AOI* = Q .	- R <sup>2</sup>	_	6.8	L <u>8 ○</u> _	68	1D	- APRIL TELEVISION TO APPENDE		
4	488.7	201.3	136.5	L	₽2 - 122°	Ĭ	Submi	d si by	AL	191.			
5	اـــــا	1				:-	Hearin	ල ධිවර	· 41-	20-9			
Absolute Open F	low		6,818	Mofd	€ 15.025	Angi	e of Slope O	4	5	Stope:	4_1.00_		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		MEASURE F	LUID. Po	DINT ALIGN	MENT TO	O EL	AT A SLO	DE OF	45° WA	S DRAW	(H		
THROUGH H	IGH POINT	OF FLOW,	<del></del>			<del></del> .	·						
Approved By Co	mm(ssion:	Conducte	rd By:		Colculate	By:			Checked E	dy:			
		1	RR					TM M					



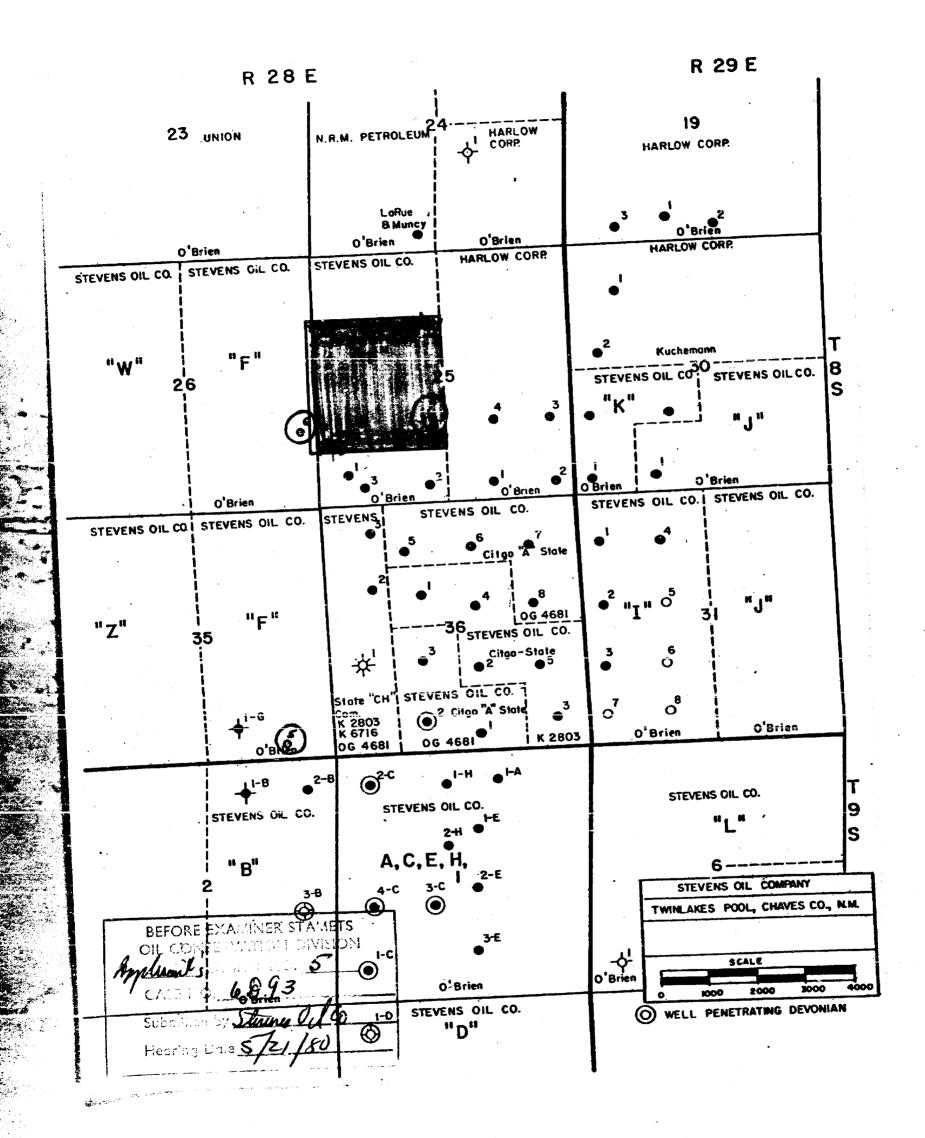


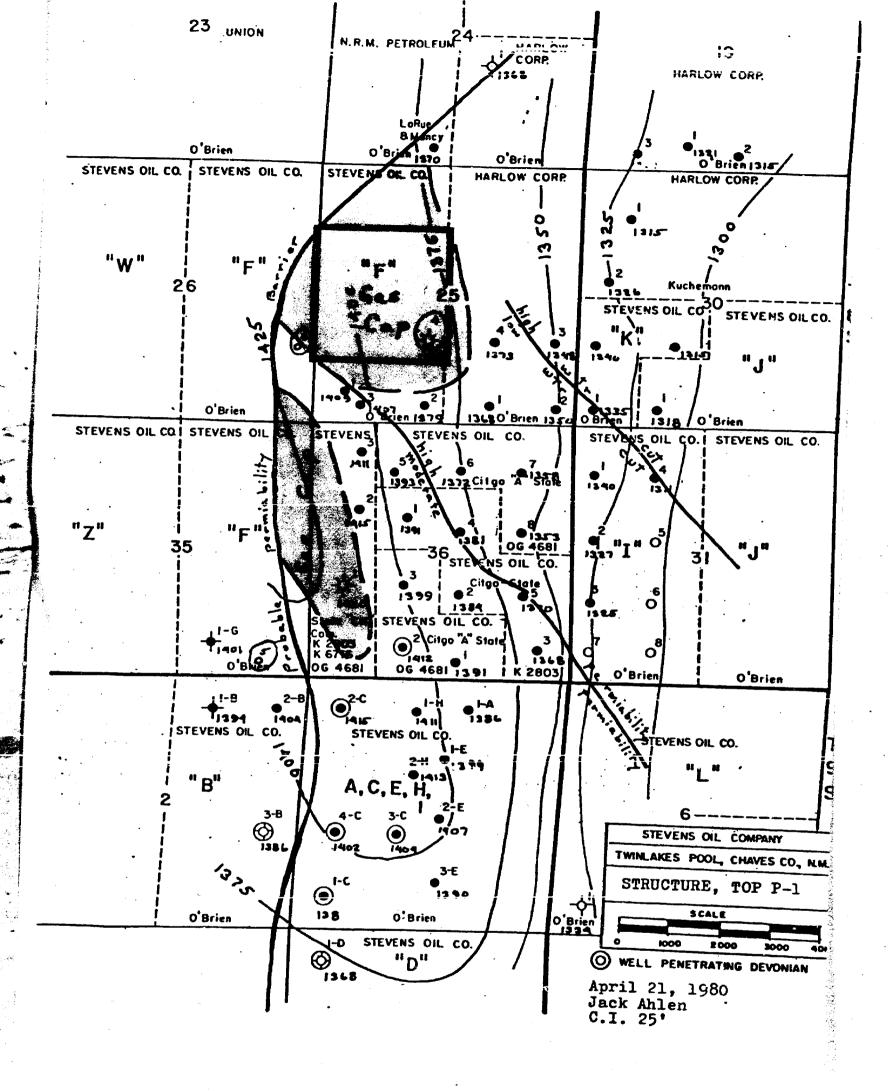
BEFORE EVALUATION STANSETS
CHECOLOGICAL MISSERSTANSETS
CHE





TYP	Type Test							Test Date				·			
						Spec	cial 3-30-80				•				
Company . Connection															
l	STEVENS OIL COMPANY TO AT						R								
Poo					Forme	tion					<del></del>	Unit			
							SAN A	NDRES							
				Plug Back					Form or Lease Name						
3-21-80 2770				} 2	2760 3923,3 GL					Of BRIEN "F"					
	. Size	Wt.	اه.		Set At		Perforation					Well No			
4	1/2	_11.	60	4.000	2770		From 2	666		2598			4		
1	I	wt.	•		Set At	. [	Perforation	no:	-	_		Unit	Sec.	Twp.	Age.
	3/8	4.		2.375	2595		From	OPEN	T	END		25 8S 28F			
''	e Weli – Sing	10 — Extag	enneag	G.G. of G.	o. Mattibie			Packer Se	ot At			County			
	SINGLE		9	r Temp. *F	114 4		Temp. *F	2536 Baro. Pre	4			CHAVES			
ł	lucing Thru	- 1		•	į į		1 emp. "?"			•		State			
<u> </u>	TUBING	L	100* =	<u> 2566</u>	<u>, 60</u>	0•	% N 2	1	3,2 % H <sub>2</sub> S	100	OVO!	Meter	W MEX	ICO Tops	
ł	- 1		1	- •			\	1	7 1723	1		Marai	nun	1 cdb#	
<b>-</b>	<b>25</b> 66	2566		808		<u> 292</u>	1_18_	637			<u>''</u>			┸┯┈	
<b> </b>	Prover			W DATA			<b>-</b>			DATA		ASING		_	wation
NO.	Line	x c	Size	Press. p.s.i.g.	Diff.	•	Temp.	Presi p.s.i.		Temp.	Pre p. s.		Temp.		of Flow
Si	. Size						-	568	<del>-</del>	<del> </del>	1				
1.	2 × 1	/8		455			61	455		<del> </del>	<del> </del>				<del></del>
2.	2 X I			420	<del>                                     </del>		65	531		<del> </del>	<del> </del>				MIN.
3.	2 × 7			453	<del></del>		65	468		<del> </del>	<del> </del>				MIN.
4.	2 × 3			243	<del></del>		60	315		<del> </del>	<del> </del>				MIN.
5.	- 4 4 3	<i>I.</i> 3		<u> </u>	<del></del>		- 00			+	<del>1</del>			<del>-   - '</del> '	ANTICA.
	<u> </u>				RAT	ΞÔ	FFLOW	CALCUL	ATI	DNS					
								Temp.	1	Gravity	$\top$	Super	T-		<del></del>
1	Coeffic	tent		VhwP <sub>ss</sub>	· Pres	saure		actor	}	Factor	l co	mpress.	1	Rate of i	
NO.	(24 H	out)	ì	- w m	,	ma -	1	Ft.	İ	Fg	Fax	tor, Fpv	• 1	Q, Mc	id
1	2,646	3			468.	Ž	.99	90	11.	112	1	043		144	
2.	1.087	7			433	2	.99	52	1.	112		038		541	
3.	3,408	3			466.	2	99	52	1	112	1			1832	
4.	9.453	<u> </u>	<u> </u>		256.	2	1.00	20	11.	112	1_	1.023		2755	
5.			<u> </u>						<u> </u>						· .
NO.	P <sub>t</sub>	Temp	. •R	τ.	z	Gas	Liquid Hy	drocarbon	Ratio					<u> </u>	Mcf/bbi.
1.						À.F	3.1. Gravity	oi Liquid	Hydro	carbons					Deç.
1.	.60	521		.38	919	Spe	cific Gravit	y Separato	x Gos		.808		xx	XXXX	XXX
2.	.55	525		39	928_	Spe	ecific Gravi	y Flowing	Fluid		XXXX	Κ	}		<del></del>
3.	.60	525		39 -	921	l	tical Press			782		P.S.I	.م. ـــــــــــــــــــــــــــــــــــ	<del></del>	P.S.I.A.
4.	.33	520		1.38	956	Cra	tical Tempe	rature		378			. R		FI
5.	581.2	D 2 3	1 37_8			<u> </u>									
Pc.		P		R,2	P-2 - P-2	1 (1)	P <sub>c</sub> <sup>2</sup>	=		475	(2)	<sub>2</sub> 2	n =.	2.47	75
-		468		219.5	118.3	۱¨΄	R2 - R	2			`-'[-	₽² - ₽	7		
2		547		99.7	38.1	{	-			* *	-	-	-		
3		521		72.1	65 7	1		R <sup>2</sup>	Jn		1 9			e e e e e e e e e e e e e e e e e e e	·····
4		488		201.3	65.7 136.5	۸٥	E = 0	R <sup>2</sup> - R <sup>2</sup>	-1	=				٠,	• [
5		1 400			140.1	1	L		Ţ	han	/		_	> ``	1
11/1/															
Abe	Absolute Open Flow					€ 15.025	Ang	le of Slepe	•4	68	28 SIO	po. n _1.	_00		
	orke: N	O WAY	TO M	EXSURE	FLUID. F	אוסכ	T ALIGN	MENT +	00 F	AT A S'	OPE OF	459/4	VAS DRA	\WN	
	HROUGH H									₹03, <sup>0</sup> 7		. IF			
										Kiza ara	- ) -		£ 22		
App	coved By Co	mmiestor	ri	Conduct	ted By:			Calculate	d By:	rivui mij	<del>- ਅਬਰ</del> ੋ	Checke	(By/)	P	
					мст			<b>∱</b> -¹−	नप्त	~		<del></del>	-:WW	<del></del>	





BEFORE EMANDER STANETS

A GIL CONTROL OF THE STANETS

CASE NO 6893

Submill String Of Co.

Hadring S/21/20

#### BEFORE THE

#### OIL CONSERVATION DIVISION OF NEW MEXICO

APPLICATION OF STEVENS OIL COMPANY A NON-STANDARD GAS PRORATION UNIT, IN N/2 SW/4, S/2 NW/4, SECTION 25, TOWNSHIP 8 SOUTH, RANGE 28 EAST, TWIN LAKES-SAN ANDRES ASSOCIATED POOL, CHAVES COUNTY, NEW MEXICO



### **APPLICATION**

Comes now Stevens Oil Company and applies to the Oil Conservation Division of the State of New Mexico as follows:

Τ.

Application requests that a non-standard gas proration unit consisting of the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes San Andres Associated Pool, Chaves County, New Mexico be approved.

II.

In support of this application applicant herein would show the Commission:

- Applicant is the operator of the W/2 Section 25, Township
   South, Range 28 East.
- 2. Applicant has completed his O'Brien "F" No. 4, NE/4 SW/4 Section 25, Township 8 South, Range 28 East, Chaves County, originally staked as an oil well, as a gas well.
- 3. A standard proration unit would encompass the SW/4 Section 25 and would include oil wells in S/2 SW/4, prohibited by Rule 5 of Order No. R-4102, Twin Lakes San Andres Associated Pool.
- 4. The non-standard gas proration unit is necessary since the non-standard unit is apparently underlain by gas and no additional acreage within the above described section is known to be gas bearing. Such non-standard unit is necessary to protect the correlative rights and prevent waste.

5. Approval of the above application will result in the recovery of gas and oil that probably would not otherwise be recovered, will prevent waste, and correlative rights of the other owners in the area will be protected.

WHEREFORE, applicant prays that this matter be set for hearing before the Commission, or before the Commission's duly appointed examiner, on April 29, 1980, and that after notice and hearing as required by law, the Commission enter its order approving the non-standard gas proration unit, above described, as prayed for.

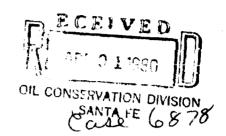
> Respectfully Submitted, STEVENS OIL COMPANY

Donald G. Stevens Attorney for Applicant

#### BEFORE THE

#### OIL CONSERVATION DIVISION OF NEW MEXICO

APPLICATION OF STEVENS OIL COMPANY A NON-STANDARD GAS PRORATION UNIT, IN N/2 SW/4, S/2 NW/4, SECTION 25, TOWNSHIP 8 SOUTH, RANGE 28 EAST, TWIN LAKES-SAN ANDRES ASSOCIATED POOL, CHAVES COUNTY, NEW MEXICO



#### APPLICATION

Comes now Stevens Oil Company and applies to the Oil Conservation Division of the State of New Mexico as follows:

I.

Application requests that a non-standard gas proration unit consisting of the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes San Andres Associated Pool, Chaves County, New Mexico be approved.

TT.

In support of this application applicant herein would show the Commission:

- Applicant is the operator of the W/2 Section 25, Township
   South, Range 28 East.
- 2. Applicant has completed his O'Brien "F" No. 4, NE/4 SW/4 Section 25, Township 8 South, Range 28 East, Chaves County, originally staked as an oil well, as a gas well.
- 3. A standard proration unit would encompass the SW/4 Section 25 and would include oil wells in S/2 SW/4, prohibited by Rule 5 of Order No. R-4102, Twin Lakes San Andres Associated Pool.
- 4. The non-standard gas proration unit is necessary since
  the non-standard unit is apparently underlain by gas and no additional
  acreage within the above described section is known to be gas bearing.
  Such non-standard unit is necessary to protect the correlative rights
  and prevent waste.

5. Approval of the above application will result in the recovery of gas and oil that probably would not otherwise be recovered, will prevent waste, and correlative rights of the other owners in the area will be protected.

WHEREFORE, applicant prays that this matter be set for hearing before the Commission, or before the Commission's duly appointed examiner, on April 29, 1980, and that after notice and hearing as required by law, the Commission enter its order approving the non-standard gas proration unit, above described, as prayed for.

> Respectfully Submitted, STEVENS OIL COMPANY

Attorney for Applicant

. .

#### BEFORE THE

#### OIL CONSERVATION DIVISION OF NEW MEXICO

APPLICATION OF STEVENS OIL COMPANY A NON-STANDARD GAS PRORATION UNIT, IN N/2 SW/4, S/2 NW/4, SECTION 25, TOWNSHIP 8 SOUTH, RANGE 28 EAST, TWIN LAKES-SAN ANDRES ASSOCIATED POOL, CHAVES COUNTY, NEW MEXICO



#### APPLICATION

Comes now Stevens Oil Company and applies to the Oil Conservation Division of the State of New Mexico as follows:

I.

Application requests that a non-standard gas proration unit consisting of the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes San Andres Associated Pool, Chaves County, New Mexico be approved.

II.

In support of this application applicant herein would show the Commission:

- Applicant is the operator of the W/2 Section 25, Township
   South, Range 28 East.
- 2. Applicant has completed his O'Brien "F" No. 4, NE/4 SW/4 Section 25, Township 8 South, Range 28 East, Chaves County, originally staked as an oil well, as a gas well.
- 3. A standard proration unit would encompass the SW/4 Section 25 and would include oil wells in S/2 SW/4, prohibited by Rule 5 of Order No. R-4102, Twin Lakes San Andres Associated Pool.
- 4. The non-standard gas proration unit is necessary since the non-standard unit is apparently underlain by gas and no additional acreage within the above described section is known to be gas bearing. Such non-standard unit is necessary to protect the correlative rights and prevent waste.

5. Approval of the above application will result in the recovery of gas and oil that probably would not otherwise be recovered, will prevent waste, and correlative rights of the other owners in the area will be protected.

WHEREFORE, applicant prays that this matter be set for hearing before the Commission, or before the Commission's duly appointed examiner, on April 29, 1980, and that after notice and hearing as required by law, the Commission enter its order approving the non-standard gas proration unit, above described, as prayed for.

Respectfully Submitted,
STEVENS OIL COMPANY

By Donald G. Stevens

. .

Attorney for Applicant

dr/

# 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:

\ 0/	CASE NO. 6878
9.00	Order No. R- 6357
	APPLICATION OF STEVENS OIL COMPANY
	GAS FOR A NON-STANDARD PRORATION UNIT AND UNORTHODOX LOCATION,
4	CHAVES COUNTY, NEW MEXICO.
120	
-	ORDER OF THE DIVISION
-	BY THE DIVISION:
	This cause came on for hearing at 9 a.m. on May 21
	19 80 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets
	NOW, on this day of May , 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, Stevens Oil Company
	seeks approval of a 160 -acre non-standard gas proration unit
;	comprising the N/2 SW/4 and S/2 NW/4 of Section 25, Town-
	ship 8 South , Range 28 East , NMPM, to be dedicated to
	its O'Brien "F" Well No. 4 to be XXEX located XX at an unorthodox location 1650 feet from the South line and 2310 feet from
the West li	herexxxxx of said Section 25
	(3) That the entire non-standard proration unit may reasonably
_	be presumed productive of gas from the Twin Lakes-San Andres Associa-
ted	Cars Pool and that the entire non-standard gas proration unit can
	be efficiently and economically drained and developed by the
	aforesaid well.

(4) That approval of the subject application will afford
the applicant the opportunity to produce his just and equitable
share of the gas in the Twin Lakes-San Andres Associated
* Eas Pool, will prevent the economic loss caused by the drilling of
unnecessary wells, avoid the augmentation of risk arising from
the drilling of an excessive number of wells, and will otherwise
prevent waste and protect correlative rights.
IT IS THEREFORE ORDERED:
(1) What a see come you standard one mucuation unit

(1) That a 160 -acre non-standard gas proration unit
in the Twin Lakes-San Andres Associatens Pool comprising the
N/2 SW/4 and S/2 NW/4 of Section 25 , Township 8 South
Range 28 East , NMPM, Chaves County, New Mexico, the Strum Oil Graper of the Strum O'Brien "F" Well No. 4
is hereby established and dedicated to so O'Brien "F" Well No.
t an unorthodox location 1650 feet from the South line and 2310 eet from the West line of xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Section 25 , here by approved,

(2) 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 hereinabove designated.