CASE 4395: Appli. of CONSOLIDATED OIL & GAS, INC. FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

Case Number 11395

Application Transcripts.

Small Exhibits

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico August 5, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Consolidated Oil & Gas Inc. for salt water disposal, Lea County, New Mexico.

Case 4395

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE

MR. UTZ: Case 4395.

MR. HATCH: Case 4395, Application of Consolidated
Oil & Gas, Inc. for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin of Kellahin & Fox, Santa Fe, appearing for the Applicant. I have one witness to be sworn.

(Exhibit 1 marked for identification.)

R. L. FLOWERS

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you state your name, please?
- A R. L. Flowers, Jr.
- Q And by whom are you employed and in what position, Mr. Flowers?
 - A Consolidated Oil and Gas as a petroleum engineer.
- Q Have you ever testified before the Oil Conservation Commission before one of its Examiners and made your qualifications as an engineer a matter of record?
 - A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. UTZ: Yes, sir.

- (By Mr. Kellahin) Are you familiar with the application of Consolidated OI1 and Gas Inc. in Case 4395?
 - A Yes, I am.
- Q Briefly, what is proposed by the Applicant in this case?
- A We are proposing to convert Ship Number 117 into salt water disposal, the producing formation which is the Abo. This well is located 660 feet from the east line and 1,980 fet from the north line, Section 17, Township 17 South, Range 37 East.

MR. KELLAHIN: Would you please mark these?

(Whereupon, Exhibit 1 was marked for identification.)

- O Now referring to what has been marked as Applicant's Exhibit Number 1, which is a multiple page exhibit, would you refer to the second exhibit in that folder and discuss the information?
- A This is a map showing two-mile radius plat of surrounding this well, Ship 117. In brown we have two San Andres completions and one circle there in brown is shown as temporarily abandoned. That is a recently drilled hole. That is not commercially productive and has been temporarily abandoned and in the other are shown the Abo completions.
- Q Now the orange wellwhich is circled in black, is that the disposal well?

A Yes, it is.

- Q You are going to dispose of water in what formation, the Abo?
 - A The Abo Formation.
- Q Now that is the same horizon that the orange colored wells are producing from?
 - A Yes, it is
- Q Who is the operator of the San Andres well immediately to the south of the disposal well?
 - A Consolidated Oil and Gas.
- Q And is there any other production in the area from San Andres?
- A Text co has a well approximately a mile and a half away. It is shown as Texaco D.G.
 - Q That is in Section 18 to the west?
 - A Yes, it is.
- Q Is there any other production in this area that could possibly be affected by the use of this well for salt water disposal?
 - A Not as far as the San Andres is concerned.
- O That is what I meant. Turning to what is marked Exhibit Number 1, would you identify Exhibit 1, Page 2?
- A This is a well sketch as we propose to complete the well starting at the top 10 3/4 inch surface casing set

at a depth 343 feet and cement was circulated at 7 5/8 inch. Intermediate casing strain was set at 3,550 feet and calculated top of cement on that strain is 1,790 feet. A liner is in the well. It is a 5 1/2 inch liner. The top of it is 3,424 and the bottom of 9,030. This liner was cemented initially with 330 sacks at the bottom and then the top of the liner was tested. It leaked. It was squeezed with fifty sacks and the liner was then drilled out and the entire casing strain was tested to 1,500 PSI for thirty minutes and held.

- Q Now the exhibit shows that the San Andres perforations are open in this liner, is that correct?
- A Yes, sir, they are still open. The zone was tested recently and it is not productive of oil even though it is offset by production.
 - O And is it watered out in that area?
 - A It is all watered at that particular location.
- O Do you propose to complete this well with a 2 7/8 plastic-coated tubing?
 - A Yes we do, packer set at approximate depth of 8,500.
- Ω And so you will be injecting coated tubing through a packer?
 - A Ves
- Q Would you fill the tubing casing anulis with an inner fluid?

A We will attempt to fill it with fluid. I can not state it will be filled. We don't know if San Andres will take it or not. It may or may not.

- O In your opinion and based on your experience, would you expect the fluid will stabilize?
 - A Yes.
- Q And will that give you any indication as to whether any leakage in the tubing?
- A I would expect some casing to build up some gas pressure, at least on the casing to build up and remain static.
- Q Would that enable you to use a guage at the surface, then, to determine if you have a tubing leak?
 - A Yes, sir.
- Q Referring to the next page of the exhibit, would you discuss the information on there?

A Briefly, this is shown that the formation to be injected into is the midway Abo injection interval is 8,915 to 8,926 1/2. They were plain shots and not an entire interval. The T. D. of the well was 9,038. That is from well "X" logs. Plug back T. D. is 8,930. The flood we intend to inject is from the San Andres and the Abo Formations. It is unfit for domestic stock irrigation or other general use. The analysis of the water from both zones is attached and the estimated injection volume initially is 300 barrels per day and a maximum

of 600 barrels per day. I would like to state that I really expect this fluid to be more like 200 barrels a day and remain relatively static.

- O Do you anticipate there will be an injection pressure initially?
 - A None is expected.
- Q Would you expect it later on in the history of the well as an injection well?
- A If I can speak briefly, I do not expect any pressure on this well for quite some time.
- O And would you anticipate the pressure would be high in the event they do build up?
 - A No, sir, I do not.
- Now the water analysis attached, does it show water to be corrosive?
- A The water is expected to be corrosive due to this water analysis that is shown in this analysis.
 - Q For that reason you will be using plastic tubing and closed system?
 - A Yes, sir.
 - Q Have you contacted the offset operators in connection with this proposed disposal well?
- A I contacted the immediate offset operators of this Gulf Oil and also Southern Union Production Company although we are operating their production at this time. I received

waivers from each and I have included them.

Q That would substantially cover all the production within the immediate area of this injection well, would it not?

A I did not contact the Atlantic Richfield Production or Texico. They are quite some way away.

Now, as I understand, you are going to be injecting in the Abo Formation which is a producing formation?

A Yes, it is.

O In your opinion, would the injection of water in this formation have any adverse effect or shorten the producing life of any of the wells in the area?

A Not in my opinion. There are currently fifteen producing Abo formations in the Midway Abo Pool and the current production average is twenty-three barrels per day per well. This is based on April, 1970 numbers which are the latest I had available. Of course, the water that we intend to inject is coming from the Ship "A" lease and the Ship 217 which is the San Andres completion.

O In your opinion, it would cause no damage to the producing formation, is that correct?

A No, sir.

Q To inject into it?

A That field is essentially a depleted oil field at this point.

Q Now the Exhibit Number 1 also contains a well log. Have you marked any information on that log?

A I have marked the producing interval, I mean the interval to be injected into. Shown on the various scales is one-inch and one-hundred feet. I have shown the curves at 8,915, 8,919 and 8,926.

- Q Do you have anything else to add, Mr. Flowers?
- A I would like to add from time to time water could be injected from the Midway State Lease although this would be an extremely small amount of water.
- Q Would the fact that the San Andres Formation is open and the liner have any adverse effect on the use of this well for injection purposes, in your opinion?
 - A Would you repeat that?
- Q Would the fact that that San Andres peforations are open in the well bore have any adverse effect on the use of the well for injection?
 - A No, sir.
 - Q Cause any damage, in your opinion?
 - A Not in my opinion.
- Q Was Exhibit 1 and the various pages contained therein prepared by you or under your supervision?
 - A They were.
 - Q At this time I would like to offer in evidence the

Applicant's Exhibit Number 1.

MR. UTZ: Without objection Exhibit 1 and attachments will be entered into the record of this case.

MR. KELLAHIN: That completes our presentation,

Mr. Utz.

MR. UTZ: Could you say how much water you intend to inject here?

I think I stated initially we plan to inject 300 barrels per day, but I really expected it to be less than that.

MR. UTZ: Do you expect it to increase substantially?

No, sir, I do not.

MR. UTZ: Be under pressure or gravity?

It will gravity.

MR. UTZ: Other questions of the witness? You may be excused. Statements?

The case will be taken under advisement.

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PAGE WITNESS R. L. FLOWERS 2 Direct Examination by Mr. Kellahin EXHIBITS OFFERED & ADMITTED MARKED EXHIBIT 10

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Applicant's 1

STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

I, SOVEIDA GONZALES, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

COURT REPORTER

I do hereby mertify that the foregoing is a complete record of the proceedings in the Examples beard by me of the first beard by meaning the first by meaning the first beard by meaning the first by meaning the first beard by meaning the first by meaning the fi



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 97801

August 12, 1970

GOVERNOR DAVID F. CARGO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

Mr. Jason Kellahin	Re: Case No. 4395	
Kellahin & Fox	Order No. R-4010	~
Attorneys at Law	Applicant:	
Post Office Box 1769 Santa Fe, New Mexico	Consolidated Oil & Gas, Inc.	<u>•</u>

Dear Sir:

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

A. L. PORTER, Jr.
Secretary-Director

ALP/ir						
Copy of order	also sent	to:			v V	
Hobbs OCC	x					
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Aztec OCC						-
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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 4395 Order No. R-4010

APPLICATION OF COMBOLIDATED OIL & GAS, INC., FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 5, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 12th day of August, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

PINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Consolidated Oil & Gas, Inc., is the owner and operator of the Shipp Well No. 1-17, located in Unit H of Section 17, Township 17 South, Range 37 East, NMPM, Midway-Abo Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Abo formation, with injection into the perforated interval from approximately 8915 feet to 8926 feet.
- (4) That the injection should be accomplished through 2 7/8-inch plastic-lined tubing installed in a packer set at approximately 8463 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-CASE No. 4395 Order No. R-4010

be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

72 (2000)

IT IS THEREFORE ORDERED:

(1) That the applicant, Consolidated Oil & Gas, Inc., is hereby authorized to utilize its Shipp Well No. 1-17, located in Unit H of Section 17, Township 17 South, Range 37 East, EMPM, Midway-Abo Pool, Lea County, New Mexico, to dispose of produced salt water into the Abo formation, injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 8463 feet, with injection into the perforated interval from approximately 8915 feet to 8926 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

- (2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF THE MEXICO OIL COMBERVATION COMMISSION

DAVED F. CARGO, Charges

ALEX J ARMIND Member

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

Car 4395 Heard 7-5-70 to converther Shippe #1-17-4-17-17-37, Widway- alfo to 5 wD 28 Dix. Platic coated tuking. unden a packer i enle perfor abel lefiller w intert fld. motor an possible due to 5 and andreas sente.

DOCKET: EXAMINER SEARING - WEDNESDAY - AUGUST 5, 1970

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

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

CASE 4385: (Continued from the July 15, 1970 Examiner Hearing)

Application of King Resources Company for a unit agreement, Otero Courty, New Mexico. Applicant, in the above-styled cause, seeks approval of the Brokeoff Mountain Unit Area comprising 37,747 acres, more or less, of Federal, State and Fee lands in Townships 24, 25, and 26 South, Ranges 19 and 20 East, Otero County, New Mexico.

- CASE 4388: Application of Numble Gil & Refining Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Florence B. Lusk, DeSmet Federal, and Hesse Federal leases located in Sections 6 and 7 of Township 15 South, Range 30 East, Double L Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said leases in unlined surface pits located in the vicinity of said wells.
- CASE 4389: Application of Coastal States Gas Producing Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Upper Pennsylvanian formation through the perforated interval from 9789 to 9924 feet in its State "27" Well No. 2 located in Unit P of Section 27, Township 14 South, Range 32 East, Tulk-Pennsylvanian Pool, Lea County, New Mexico.
- CASE 4390: Application of Murphy H. Baxter for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the North E+K Queen Unit Area comprising 978 acres, more or less, of State lands in Township 17 South, Range 33 East, and Township 18 South, Ranges 33 and 34 East, E-K Yates-Seven Rivers-Queen Pool, Lea County, New Mexico.

Examiner Hearing - August 5, 1970 Docket No. 18-70

- CASE 4391: Application of Murphy H. Baxter for a waterficod project,
 Lea County, New Mexico. Applicant, in the above-styled
 cause, seeks authority to institute a waterflood project in
 its North E-K Queen Unit Area by the injection of water into
 the Queen formation through 4 wells located in Units A, D, F,
 and G of Section 7, Township 18 South, Range 34 East, E-K
 Yates-Seven Rivers-Queen Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be
 expanded administratively without a showing of well response.
- CASE 4392: Application of Southwestern Natural Gas, Inc. for the assignment of back allowable, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the assignment of back allowable to its Mershon Gas Comm Well No. 1 located in Unit A of Section 21, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico, for the period from the date of completion of said well on September 22, 1969, to the date of connection of said well on June 4, 1970.
- CASE 4393: Application of Mobil Oil Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from 12,240 feet to 12,463 feet in its Santa Fe Pacific Well No. 3 located in Unit M of Section 26, Township 9 South, Range 36 East, Crossroads-Devonian Pool, Lea County, New Mexico.
- CASE 4394: Application of Phillips Petroleum Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Plata Deep Unit Area comprising 5,600 acres, more or less, of Federal and State lands in Sections 8, 9, 10, 11, 14, 15, 16, 22 and 23 of Township 20 South, Range 32 East, Lea County, New Mexico.

CASE 4395:

Application of Consolidated Oil & Gas, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation in the perforated interval from 8915 to 8926 feet in its Shipp Well No. 1-17 located in Unit H of Section 17, Township 17 South, Range 37 East, Midway Abo Pool, Lea County, New Mexico.

Examiner Hearing - August 5, 1970 Docket No. 18-70

CASE 4396: Application of Klabzuba, Munson and Seaman for a dual completion and salt water disposal, Chaves County, New Mexico.

Applicants, in the above-styled cause, seek authority to dually complete its (Varel) Avalanche Journal Well No. 1 located in Unit N of Section 18, Township 10 South, Range 28 East, Chaves County, New Mexico, in such a manner as to produce gas from the San Andres formation in the perforated interval from 2186 to 2204 feet of the Race Track (San Andres) Pool through the casing-tubing annulus and dispose of produced salt water through tubing into the San Andres formation of said pool in the perforated interval from 2262 to 2289 feet.

CASE 4397: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Rio Trust and all other interested persons to appear and show cause why the following Rio Trust wildcat wells located in Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

Little Chama Valley Co. Well No. 1 located 660 feet from the North line and 1380 feet from the West line;

Sargent Well No. 1 located 925 feet from the West line and 1445 feet from the South line.

CASE 4267: (Reopened)

In the matter of Case No. 4267 being reopened by the Oil Conservation Commission on its own motion to permit Edward M. Kriss and all other interested parties to appear and show cause why the Edward M. Kriss Little Chama Valley Company Well No. 1, a wildcat well, located 545 feet from the North line and 1530 feet from the West line of Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 4398: Application of Michael P. Grace and Corinne Grace for compulsory pooling and unorthodox gas well locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interets from the surface of the ground down to and including the Morrow formation underlying the N/2

Examiner Hearing - August 5, 1970 Docket No. 18-70 -4-

(Case 4398 continued)

and the S/2 of Section 2, Township 23 South, Range 26 East, Eddy County, New Mexico, to form two 320-acre proration units for the production of gas from any or all zones of the Pennsylvanian formation. Said N/2 and S/2 to be dedicated to wells to be drilled respectively, at unorthodox locations 2500 feet from the North line and 330 feet from the East line of said Section 2 and 990 feet from the South line and 660 feet from the East line of said Section 2.

Also to be considered will be the costs of drilling said wells, a charge for the risk involved, provisions for the allocation of actual operating costs, and the establishment of charges for supervision of said wells.

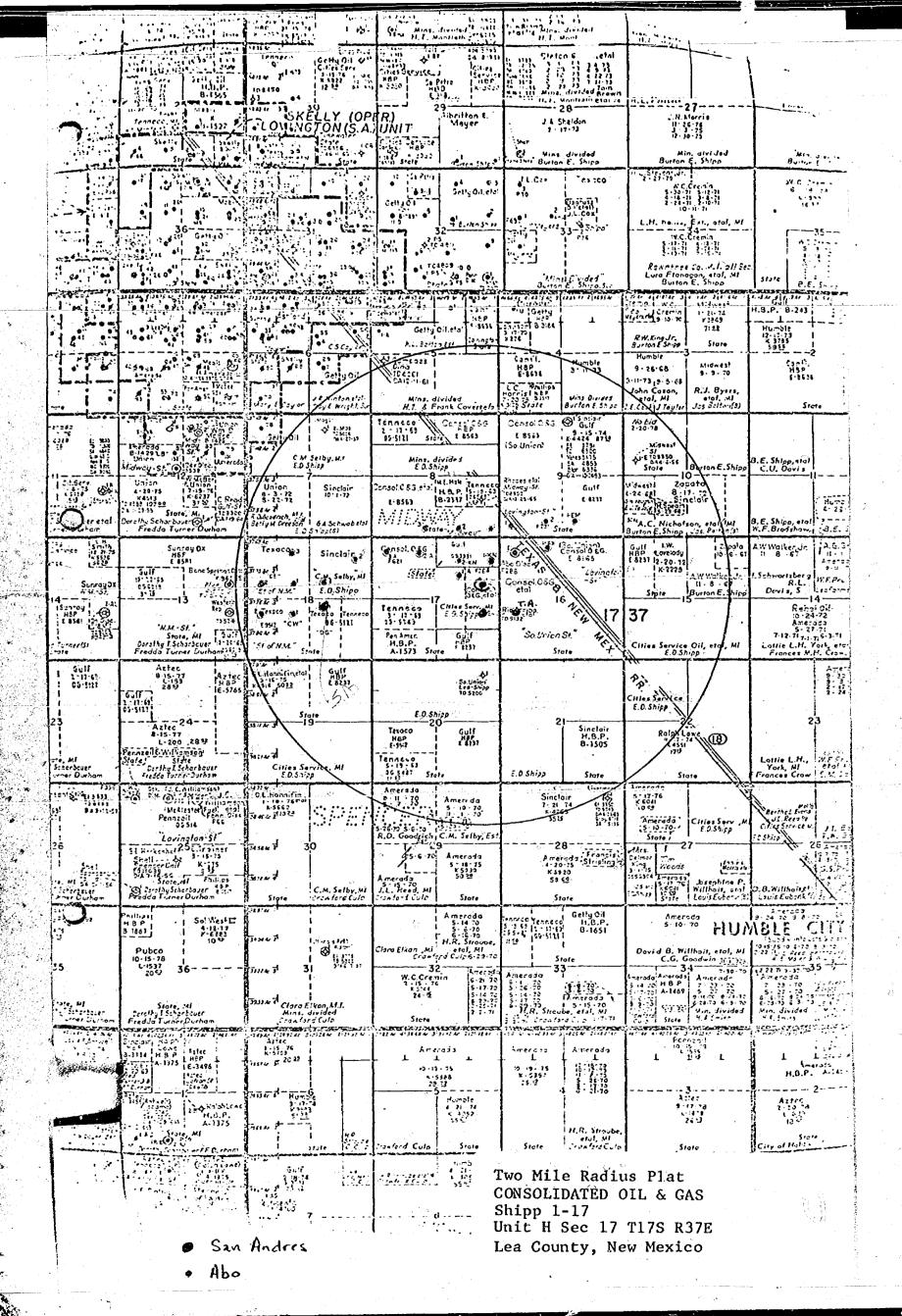
CASE 4354: (Continued from the July 1, 1970, Examiner Hearing)

Application of Michael P. Grace and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, said acreage to be dedicated to a well to be drilled in either the NE/4 NW/4 or the NW/4 NE/4 of said Section 11, Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4395
Application of:
CONSOLIDATED OIL & GAS, INC.
For Salt Water Disposal
Shipp Well No. 1-17
Lea County, New Mexico

BETCHE EXAMINER UTZ
ONSERVATION COMMINER WITZ
ONSERVATION COMMINER
ON CHARLETT NO. 4395

 C_{i}^{\prime}



Well Sketch
Shipp 1-17
660 FEL & 1980 FNL
Sec 17, TITS, R37E
Lea County, N.M.

15" Hole 103/4 " @ 343' cemented w/ 275 sxs cem. circ. 9 % Hole ~ Liner Top 3424 squeezed w/50 sxs. 75%" @3550 cemented w/300 sxs. calculated top of coment 1790. 2 5092-5105 San Andres perts (Not Squeezes 2 - 27/8" EUE Plastic Coated Tubing 63/4 1/6/2 51/2" Liner Top @ 3424'; Btm @ 9030' n Baker Model "R" a 8463' Entire liner 8915 8919 89261/2 Injection Intervals drilled out & pressure tested - PBTD @ 8930' Liner Btm @ 9030' cemented w/330 sxs. to 1500 psi 30 min.

9038'

T.D.

Pertinent Information Shipp #1-17 SE NE Sec. 17 T17S R37E Lea County, New Mexico

Formation:

Midway Abo

Injection Interval:

8915-8926.51

T. D.:

9038 1. ~

PBTD:

8930'

Type of Injection Fluid:

Salt water from San Andres and Abo formations. Unfit for domestic, stock, irrigation, or other general

use.

Analysis of Water:

Attached

Estimated Injection Volumes:

Initial 300 BPD Maximum 600 BPD

Expected Injection Pressure Initially: Gravity



WATER ANALYSIS

DATE: 6-19-70

in the second se		0 Pay 123.	vichita	Falls, I	6X519	
Smi-Bro Chemical	Company. P	O BOX LAZE				
Usi U						

counce: Consolidated Oil & Gas, Well # 2, Shipp lease

Alkalinity	880 bbw
Hardness	18,000 "
Chloride	32,000 "
Sulfate	120 "
Iron	35 "
Hydrogen sulfide	50 [#]
Barium	•
Carbon dioxide	80n 3
pii value	6.3

J. H. Payne, Analyst

wed like

WATER ANALYSIS for

DATE: 4-2-70

Smi-Bro Chemical Company, Box 123, Wichita Falls, Texas

SOURCE: Consolidated Oil & Gas, Shipp A well # 3

Alkalinity	90	ppn
Hardness	105,000	Ħ
Chloride	242,000	п
Sulfate	168	a
Iron	25	ų
Barium	0	
Hydrogen sulfide	0	
Carbon dioxide	220	Ħ
pH value	5.	8

J. H. Payne, Analyst



Shipp 1-17 wen Tile

1860 LINCOLN STREET DENVER, COLORADO 80203 (303) 255-1751

June 24, 1970

Gulf Oil Company Producing Office Box 670 Hobbs, New Mexico 88240

Attention: J. D. Mussett

Gentlemen:

This letter is a request for waiver from Gulf Oil Company as an offset operator for Consolidated Oil & Gas, Inc. to inject salt water in the Shipp No. 1-17 located 660' from east line and 1980' from north line, Section 17, T17S, R37E, Lea County, New Mexico.

The interval of injection will be into the Abo formation from 8915' to 89262'.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

Lee Flower

Lee Flowers

OBJECTION WAIVER
By

For Area Production Manager

GULF OIL CORPORATION



LINCOLN TOWER BUILDING 1860 LINCOLN STREET DENVER, COLORADO 80203 (303) 255.1751

Copy Car Con Cile

June 24, 1970

Control of the Contro

Southern Union Production Company
1434 Fidelity Union Tower Parties 1434 Fidelity Union Tower Building Dallas, Texas 75201

Attention: Mr. Tom Morgan, Sr.

Gentlemen:

This letter is a request for waiver from Southern Union Production Company as an offset operator for Consolidated Oil & Gas, Inc. to inject salt water in the Shipp No. 1-17 located 660' from east line and 1980' from north line, Section 17, T17S, R37E, Lea County, New Mexico.

The interval of injection will be into the Abo formation from 8915' to 89262'.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

E. J. Henderson

Manager of Operations

For Southern Union Production Company



LINCOLN TOWER BUILDING 1860 LINCOLN STREET DENVER, COLORADO 80203 (303) 255-1751

June 24, 1970

Gulf Oil Company Producing Office Box 670 Hobbs, New Mexico 88240

Attention: J. D. Mussett

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The interval of injection will be into the Abo formation from 8915' to 8926½'.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

Lee Flower

Lee Flowers

A VARIATION OF THE STATE OF THE

For Area Production Manager GULF OIL CORPORATION

Case 4395



LINCOLN TOWER BUILDING 1850 LINCOLN STREET DENVER, COLORADO 80203 (303) 255-1751

June 24, 1970

Cast 43.95

Southern Union Production Company 1434 Fidelity Union Tower Building Dallas, Texas 75201

Attention: Mr. Tom Morgan, Sr.

Gentlemen:

This letter is a request for waiver from Southern Union Production Company as an offset operator for Consolidated Oil & Gas, Inc. to inject salt water in the Shipp No. 1-17 located 660' from east line and 1980' from north line, Section 17, T17S, R37E, Lea County, New Mexico.

The interval of injection will be into the Abo formation from 8915' to $8926\frac{1}{2}'$.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

E. J. Henderson

Manager of Operations

OBJECTION WAIVER

MP

For Southern Union Production Company



1860 LINCOLN STREET DENVER, COLORADO 80203 (303) 255-1751

July 1, 1970
Selfor Laning

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Dear Mr. Ramey:

We submit for your administrative approval, applications to inject salt water into the Consolidated Oil & Gas Shipp #1-17 located 660' FEL & 1980' FNL, Section 17, T17S, R37E, Lea County, New Mexico.

The subject well will replace salt water disposal well Shipp #2-17 located 1980' FSL & 660 ' FEL, Section 17, T17S, R37E. The Shipp #2-17 has been recompleted as a San Andres producer thereby necessitating a new salt water disposal well.

Attached please find a two-mile Radius Plat, Gamma Ray-Acoustic Log, Well Sketch, and Form Calo8. Copies have been sent to the surface owner and those offset operators shown on C-108.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

AL Flower &

R. L. Flowers, Jr. Petroleum Engineer

DOCKET MAILED

Date 7/23/70 c.c.: E.D. Shipp, Gulf Oil Company, Southern Union Production Co. Attach.

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Well Sketch
Shipp 1-17
660 FEL & 1980 FNL
Sie 17, TITS, R37E
Lea County, N.M.

Lea County, N.M. Che 4395 15" Hole 103/4" @ 343' comented w/ 275 sxs com. circ. 9 % Hole 2 - Liner Top 3424 75/8" @3550' cemented w/300 sxs. 2 5092-5105 San Andres perts (Not Squeezed) 2 27/8 EVE Plastic Coated Tubing 63/4 Hole 2 51/2" Liner Top @ 3424'; Btm @ 9030' ~ Baker Model "R"@ 8463' + 8915 8919 89261/2 Injection Intervals - PBTD@ 8930' 2 Liner Btm @ 9030' 9038'

A Consequence & Basel

RECEIVED

JUL 8 1970 OIL CONSERVATION COMM. HOBBS, N. M.

Form C-108 Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

PERATOR			ADDRESO			VPA.		
CONSOLIDATED OIL	& GAS, I	NC .	1860	Linc	oln, Suite	e 1300 Denver, Col		
Shipp	· · · · · · · · · · · · · · · · · · ·	1-17	Midw	ay Ab	0	Lea		
UNIT LETTER	н	VELL IS LOCATED6	60	FROM THE	East ,	INE AND 1980 FEET FROM		
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North Line, SECTION	17 1	OWNSHIP 17S CASING	RANGE 37		NMPM.			
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Plastic Coated	2 7/8	8463 Est.	Baker M		"R"	BOTTOM OF FORMATION		
Abo			8			9038 T.D.		
INJECTION THROUGH TUBING, CASIN	G, OR ANNULUS?	1.	OR OPEN HOLE?	PROPOSED	INTERVAL(S) OF INJE	ECTION		
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ST ALL SUCH PERFORATED INTERVAL			FF OR SQUEEZE E	ACH		100		
	2-5105	Not Cer				8		
EST 300 1		DEPTH OF BOTTOM OF OIL OR GAS ZONE IN 5111	THIS AREA		None	P OF NEXT LOWER LONE IN THIS AREA		
TICIPATED DAILY MINIMUM PECTION VOLUME	300	Close	d	PRESS	ection to be by GRA	Vacuum		
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ME AND ADDRESS OF SURFACE OWN	_	င် သည်	& San An	ares	Yes	No		
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Southern Union Pr	oduction	Co. 1434	Fidelity	Unio	n Tower Bu			
Dallas Texas 752	201		* 1					
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Gulf Oil Co. Box	670 Но	bbs, New Me	xico 88	240	-	<u> </u>		
		····	·					
A.		s t						
AVE COPIES OF THIS APPLICATION BEENT TO EACH OF THE FOLLOWING?	EN SURFACE OF		EACH OPE	ELL	IN ONE-HALF MILE	THE NEW MEASON STATE ENGINEER		
TE THE FOLLOWING ITEMS ATTACHED	TO PLAT OF AR	Yes	ELECTRIC	Yes		Yes		
HIS APPLICATION (SEE RULE 701-8)	I I	Yes	1. 1	Yes		TOTAL PROPERTY OF WELL YES		

(Date) (Title)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well.

not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

Care 4395

RECEIVED

JUL 8 1970

OIL CONSERVATION COMM. HOBBS, N. IA.

approximately **8463** feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1)	That the app	olicant, <u>Con</u>	solidated Oi	l & Gas, I	inc.	
is hereby	authorized t	to utilize it	s Shipp Wel	1 No. 1-17	,	
located i	n Unit <u>H</u> of	f Section 17	_, Township	17 Sout	h Rang	де
37 Eas	t NMPM,	Midway-Ab	o Pool		Lea	
County, N	ew Mexico, to	o dispose of	produced sal	t water i	nto the	
A	bo	formation	, injection	to be acco	omplished	d through
27/8	inch tubing	g installed i	n a packer s	et at app	roximate	Ly
8463	_ feet, with	injection in	to the pe	rforated		interval
from appr	oximately $\frac{8}{2}$	3915 <u> </u>	to <u>8926</u>	feet;		
PROV	IDED HOWEVER	, that the tu	bing shall b	e plastic	-lined;	4. (
that the	casing-tubing	g annulus sha	ıll be filled	with an	inert	
fluid: an	d that a pre	ssure gauge s	shall be atta	ched to t	he annul	นธ

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

or the annulus left open at the surface in order to determine

leakage in the casing, tubing, or packer.

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

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

DRAFT GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

Tha	THE PURPOSE OF CONSIDERING:	w	
	NO	CASE No.	4395
	WIN SIN	Order No.	R- 4010
	The state of the s)
	APPLICATION OF CONSOLIDATED OIL & GAS, INC.	,	C
	FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.	7-	7- DO

ORDER OF THE COMMISSION

								-								
3.	This	cau	ise	came	on	for	hear	ring	at	9	a.m.	on	A	ugust	5	 1970
at	Santa															

NOW, on this _____day of <u>August</u>, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

BY THE COMMISSION:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Consolidated Oil & Gas, Inc.

 is the owner and operator of the Shipp Well No. 1-17

 located in Unit H of Section 17, Township 17 South, Range

 37 East , NMPM, Midway-Abo Pool , Lea

 County, New Mexico.
- (4) That the injection should be accomplished through

 -inch plastic-lined tubing installed in a packer set at