Case Number 4822

Application
Trascripts

Small Exhibits

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE HALL, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO August 23, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Crown Central Petroleum for salt water disposal, Lea County, New Mexico.

CASE NO. 4802

BEFORE: Richard L. Stamets

Examiner

TRANSCRIPT OF HEARING

PAGE

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MR. STAMETS: Call for appearances in Case 4802. MR. LOPEZ: My name is Owen Lopez with Montgomery, I have one witness, Mr. Edward Fuerst. Federici. MR. HATCH: Case 4802. Application of Crown Central Petroleum for salt water disposal, Lea County, New 6 7 Mexico. EDWARD FUERST, 8 appeared as a witness and, having been duly sworn according to law, testified as follows: 10 DIRECT EXAMINATION 11 BY MR. LOPEZ: 12 Would you please state your name, address and 13 Q occupation for the record? Edward M. Fuerst, 2521 Shell, Midland, Texas, district 14 15 A engineer, Crown Central Petroleum Corporation. 16 Mr. Puerst, have you previously testified before the Q 17 New Mexico Oil Conservation Commission and been 18 qualified? 19 No, sir, I haven't. Would you then give us a brief rundown of your back-20 \mathcal{O} 21 ground and education? I am a graduate of the University of Ohlahoma, School 22 23 of Petroleum Ungineering, 1950. What has been your experience in the petroleum lusiness

dearnley, meier & mc cormick regarders

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1		since that time?
2	A	I have been production drilling engineer with Shahya
3		Petroleum and Crown Central Petroleum.
4	Q	Does your present capacity with Crown Central
5		Petroleum Company include the supervision of the
6		development in New Mexico and the area in question
7		today?
8	A	Yes, sir.
9		MR. LOPEZ: Are the qualifications acceptable,
10	Mr. E	xaminer?
11		MR. STAMETS: They are.
12	Ő	(By Mr. Lopez) Mr. Fuerst, are you familiar with the
13		application of Crown Central Petroleum Corporation in
14		Case Number 4802?
15	Λ	Yes, sir.
16	Ω	What does the applicant propose to obtain by this
17		application?
18	Λ	We requested that the Turner Number 2 well located
19		in Section 6, Township 20 South, Range 38 East, Lea
20		County, New Mexico, be converted from a sub-marginal
21		producter to a salt water disposal well.
22	ΰ	Turning to Exhibit Number 1, is this the map which
23		indicates the location of this well?
24	T.	Yes, sir. This map was prepared to show the location
25		of the well and the acreage controlled by Crown Centra

dearnley, meier & mc cormick reported

209 SIMMS BLDG. + P.O. BOX 1092 + PHONE 245-6661+ ALBUQUERQUE, NEW MEXICO 87108	1218 FIRST NATIONAL DANK BEDG. BASH * ALBUQUERQUE, NEW MEXICO 87108

1		Petroleum.
2	Q	Turning to Exhibit Number 2, would you please explain
3		what this Exhibit intends to convey?
4	A	Exhibit Number 2 shows the well in question and the
5		offset wells and where they are completed and shows
6	-	that there are no wells offsetting as completed in the
7		Grayburg formation except our own wells to the north,
8		Number 1.
9	Q	Now, turning to Exhibit Number 3, what does this
10		Exhibit show?
11	A	Exhibit 3 is an electric log of the well showing the
12		open hole completion where casing is set and the
13		amount of cement used.
14	Q	I think I showed you Exhibit Number 4 first.
15	Λ	That is the decline curve showing all oil and gas
16		production since '66 and until May of this year.
17	Ω	Is the well now making 100 percent water?
18	A	The well is going to 100 percent water.
19	Ď	I am turning to Exhibit Number 4 which is what I
20		misidentified as Exhibit 3.
21	A	Exhibit 4 is an electric log of the well originally
22		completed open hole in the Grayburg and it shows the
23		casing point and the cementing procedures.
24	Ω	What does Exhibit Number 5 show?
25	A	Exhibit 5 is a schematic of the proposed completion

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	PAGE	6
showing the packer at approximately	3,980 fe	et with
2 and 3/8 inch tubing and we propose	e to put	fluid
behind the tubing and engage on it.		
What type of tubing do you propose	to use?	
In this Exhibit we said salta linin	ng. We wo	ould like
to request that we use cement line	tubing if	f we have
some available.		
I am turning to Exhibit 5 and 6, or	r I guess	6 and 7.
Six and Seven are affidavits from	the offse	t operators
and the Turner Estate owner of the	service	and memos
under the Turner lease.		
If your application is not granted	l in this	case, what
effect do you believe this would h	nave on ye	our lease?
The economic limit would probably	force us	to plug up
the lease prematurely.		
Then it is your opinion that the	granting	of the
application of Crown Central Petr	coleum Cor	poration
in this Case 4802 would tend to r	protect co	orrelative
rights and prevent waste?		
Yes, sir, it would.		3 oss
Were Exhibits 1 through 5 prepar	ed by you	Ox anger
your supervision?		
Yes, they were.		
Exhibits 6 and 7?		
Yes, sir.		

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MR. LOPEZ: At this time I would like to identify and introduce Exhibits 1 through 7. MR. STAMETS: Without objection, Applicant's Exhibits 1 through 7 will be admitted into evidence. (Whereupon, Applicant's Exhibits Number 1 through

7 were marked and admitted into evidence.)

(By Mr. Lopez) Mr. Furst, do you have anything further Q to add to this case?

No, sir.

MR. STAMETS: Are there questions of the witness?

CROSS-EXAMINATION

BY MR. STAMETS:

- Mr. Furst, referring to Exhibit Number 2, the acreage which you have colored in yellow is all Crown Central acreage?
- Yes, sir. We bought out Sunset International in Movember of last year. That is why the SIPCO on the map is indicated.
- This would indicate then that there are only two wells Q producing from the Grayburg directly offsetting the proposed injection well?
- Just one, sir, the Number 1 Weir, to the north of us. You have wells to the south but you will note that they are plugged out.

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1	Q	The one directly to the west, that is an abandoned
2		well?
3	A	Yes, sir.
4	Ω	Who is the operator of the one well that is producing?
5	Λ	That is our property, Number 1 Weir.
6	Q	Then the other landowners that you have gotten waivers
7	~	from, could you tell me where those wells are located?
8	A	Yes. Landowner D.C. Collier, which would be directly
9	••	south of our acreage, there would be two locations
10		south of the proposed injection wells.
11	Q	Those are identified as D Cal Number 1 and 2 Wells?
12	λ	Yes. Fred Turner Estate.
13	Ω	Where is that well located?
14	A	That's the Turner. That is the Turner lease. It is
15		the Number 2 Turner, the well that we want to convert.
16		That is the Turner.
17	Ω	His waiver then is as a royalty owner, right, other
18		than an offset operator?
19	A	Right.
2	ο Ω	Now, you stated the Turner well Number 2 turned to
2	1	water?
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 A	Yes, sir.
	23	One hundred percent. When did that happen?
1216	24 A	About February of this year or started going to water
	25	and right now as of June and July it has been all water

Is this water from a waterflood or formation water?

flooding going on. There is quite a bit south of us

We feel it is formation water. This is the only

dearnley, meier & mc cormick and services

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4		and it is a different horizon.
5	Q	I notice the production seems to be relatively stable.
6	A	Up to the first of the year.
7	Q	Could it be that there is a bole in the casing?
8	A	We checked the casing and we have already gone in
9		there and tried to do acid work and had no results.
10	Q	What method did you use to check for a hole in the
11		casing?
12	A	Pressure up on the back side of the packer and the
13		annulus.
14	Q	Where was the packer sitting?
15	A	We came up and started from the island and worked our
16		way up the hole to he sure.
17	Q	Essentially from the bottom of the hole?
18	V	Yes, sir.
19	Q	Referring to your Exhibit Number 4, I note here that
20		the 7/16 inch casing was set at 4,012 with 50 sacks
21		of cement.
22	λ	Yes, sir.
23	Q	Was this just the way the completion was handled at
24		that time?
[A	They came up the hole and perforated about 3,850 and

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Yes, sir.

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11 PAGE put a 500 sack additional cement squeeze on it. That was their method of completion at the time. The Exhibit shows perforations and cement with 250 sacks poz mix and 250 sacks of regular. That is your addition. Do you know why it was done that way? They did all their wells that way for some reason or other. All the wells that Weir acquired from Signal, they used 50 sacks and then they came back up and punched a hole or two and ran additional cement. Is it your opinion that this well is properly cemented for salt water disposal well? Yes, sir. There is -- cement temperature surveys were run on the cement and they are in the file. What is the top of the cement on this second batch? I am sorry. I said wrong. There was not a cement survey on the second. It was on the first. They went in there with a round J-7 packer and applied 800 pounds pressure on the cashinghead and, let's scc, 3,585 pressure up the tubing and pressed up on casing 3,013 pounds with no leak. Perforations at 3,525 demented off. This should be an adequate cement job to seal the annulus?

Referring to Exhibit Number 5, it is your proposal to fill the casing tubing and annulus with an inhibited Q fluid? 3 Yes, sir. 4 You will use cement line tubing. Would you like the \mathbf{A} 5 Q option of using plastic lined tubing as well? 6 Yes, sir, if we cannot -- if it is not available at 7 A the time to go ahead with the job. MR. STAMETS: Are there any other questions of 8 9 the witness? 10 (No response.) 11 MR. STAMETS: He may be excused. 12 (Witness excused.) MR. STAMETS: Are there any statements in this 13 14 case? 15 (No response.) MR. STAMETS: The case will be taken under 16 17 advisement. 18 19 20 21 22 23 24 25

STATE OF NEW MEXICO) ss COUNTY OF BERNALILLO

I, MARCIA J. HUGHES, a Court Reporter, in and for the County of Bernalillo, State of New Mexico, 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.

Marcia Judes

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ADMITTED

209 SIMMS BLDG. # P.O. BOX 1092 + PHONE 245-6691 + ALBUQUE:RQUE, NEW MEXICO 87:03 12:16 First national bank bldg. East + AlbuqueRque, new Mexico 87:08

	PAGE
	<u>I N D E X</u>
	WITNESS:
	EDWARD FUERST
	Direct Examination by Mr. Lopez
	Cross-Examination by Mr. Stamets
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8	
9	EXHIBITS
10	
11	Crown Central Petroleum
12	Exhibit Number 1
13	Exhibit Number 2 5
14	Exhibit Number 3 5
15	Exhibit Number 4 5
16	Exhibit Number 5 5
17	Exhibit Number 5
18	Exhibit Number 7
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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA FE 87501

September 6, 1972

GOVERNOR
BRUCE KING
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

Mr. Owen Lopez Montgomery, Federici, Andrews, Hannahs Montgomery at Law Post Office Box 2307 Santa Fe, New Mexico
Enclosed herewith are two copies of the above-referenced commission order recently entered in the subject case. Very truly yours, A. L. PORTER, Jr. Secretary-Director
ALP/ir Copy of order also sent to: Hobbs OCC X Artesia OCC

State Engineer Office

Aztec OCC____

Other_

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. 4802 Order No. R-4387

APPLICATION OF CROWN CENTRAL PETROLEUM CORPORATION 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 23, 1972, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 6th day of September, 1972, 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:

- (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, Crown Central Petroleum Corporation, is the owner and operator of the Fred Turner Well No. 2, located in Unit O of Section 6, Township 20 South, Range 38 East, NMPM, Skaggs (Grayburg) Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Grayburg formation, with injection into the open-hole interval from approximately 4,011 feet to 4,083 feet.
- (4) That the injection should be accomplished through 2 3/8-inch cement or plastic-lined tubing installed in a packer set at approximately 3,980 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should 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.

-2-CASE NO. 4802 Order No. R-4387

IT IS THEREFORE ORDERED:

(1) That the applicant, Crown Central Petroleum Corporation, is hereby authorized to utilize its Fred Turner Well No. 2, located in Unit O of Section 6, Township 20 South, Range 38 East, NMPM, Skaggs (Grayburg) Pool, Lea County, New Mexico, to dispose of produced salt water into the Grayburg formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3,980 feet, with injection into the openhole interval from approximately 4,011 feet to 4,083 feet;

PROVIDED HOWEVER, that the tubing shall be cement or 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.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE-KING, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr. Member & Secretary

SEAL

DOCKET: EXAMINER HEARING-- WEDNESDAY - AUGUST 23, 1972

9 A.M. - OIL CONSERVATION COMMISSION 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 4775: (Continued from the July 26, 1972 Examiner Hearing)

Application of Continental Oil Company for amendment of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks amendment of the special rules and regulations governing the Blinebry Pool, Lea County, New Mexico, to provide for annual bottom-hole pressure, gas-oil ratio, and gas-liquid tests in the pool. Applicant further seeks the designation of oil areas and gas areas in the pool with allowables within each area equalized on a per-acre basis and total withdrawals from the gas area to be volumetrically equivalent to the total withdrawals from the oil area.

Applicant further seeks to extend the vertical limits of the Blinebry Pool down to the top of the Tubb Pool.

Also to be considered by the Commission on its own motion will be amendment of the special rules and regulations to require that intermediate— or low-pressure gas be charged against a well's allowable; elimination of the requirement to conduct bottom-hole pressure, gasoil ratio, and gas-liquid tests; and to require that all gas production be reported on Form C-111.

CASE 4779: (Continued from the July 26, 1972, Examiner Hearing)

Application of Merrion & Bayless for a non-standard proration unit, Sam Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the SE/4 of Section 35, Township 30 North, Range 12 West, within one mile of Flora Vista-Mesaverde Pool, San Juan County, New Mexico, to be dedicated to its Carnahan Well No. 1 located in Unit P of said Section 35.

- CASE 4798: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider revision of Rule 701 E of the Commission Rules and Regulations to provide for unrestricted allowables for water-fleed projects and to eliminate the necessity of response for administrative approval of additional injection wells.
- CASE 4799: In the matter of the hearing called by the Oil Conservation Commission on its own motion to amend Rule 306 of the Commission Rules and Regulations to incorporate therein the provisions of Order No. R-4070 which regulate the flaring or venting of casinghead gas.

CASE 4807: In the matter of the hearing called by the Oil Conservation Commission on its own motion for the amendment of Rule 104 C. I of the Germission Rules and Regulations to permit the drilling of development oil wells as close as 330 feat to another well on the same guit drilling to or capable of producing from the same pool.

CASE 4800: Application of Mobil Oil Corporation for waterflood expansion and capacity allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seaks to expand its Bridges State Waterflood Project. Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, by the addition of its Bridges State Wells Nos. 12 and 174 located, respectively, in Unit P of Section 26 and Unit J of Section 15, Township 17 South, Range 34 East.

> Applicant further seeks the assignment of capacity allowable to said Well No. 12.

CASE 4801: Application of The Petroleum Corporation for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Parkway West Unit Area comprising 3840 acres, more or less, of State lands in Sections 20, 21, 22, 27, 28, and 29 of Township 19 South, Range 29 East, Eddy County, New Mexico.

> Application of Crown Central Petroleum 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 Grayburg formation in the open-hole interval from 4011 feet to 4083 feet in its Fred Turner Well No. 2 located in Unit O of Section 6, Towaskip 20 South, Range 38 East, Skaggs (Grayburg) Pool, Lea County, New Merrico.

CASE 4803: Application of Yates Petroleum Corporation to directionally drill and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause; seeks authority to re-enter a dry hole having an unorthodox surface location 1980 feet from the North line and 660 feet from the East line of Section 25, Township 18 South, Range 25 East, Eddy County, New Maxico, and to directionally drill in such a manner as to bottom the well in the West Atoka-Morrow Gas Pool at an unorthodox bottom hole location 500 feet from the North line and 600 feet from the East line of said Section 25. The N/2 of said Section 25 to be dedicated to the well.

CASE 4804: Application of Dugan Production Corporation for downhole commingling and a non-standard proration unit, San Juan County, New Maxico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle oil production from the Amarillo-Gallup Oil Pool and gas from the

CASE 4802:

Examiner Hearing - August 23, 1972

(Case 4804 continued)

Basin-Dakota Pool in the wellbore of its Fullerton Well No. 1 located 1850 feet from the North and West lines of Section 34, Township 28 North, Range 13 West, San Juan County, New Mexico. Applicant further seeks approval for a non-standard 160-acre gas proration unit for the Basin-Dakota Pool comprising the NW/4 of said Section 34 to be dedicated to the subject well.

- CASE 4805: Application of W. C. Montgomery for a non-standard proration unit, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for an 80-acre non-standard oil proration unit comprising the NE/4 NE/4 of Section 20 and the NW/4 NW/4 of Section 21, Township 8 South, Range 38 East, Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico, to be dedicated to a well to be drilled in the NE/4 NE/4 of said Section 20.
- CASE 4806: Southeastern New Mexico nomenclature case calling for an order for the creation, extension, contraction and abolishment of certain pools in Lea, Chaves, Eddy and Roosevelt Counties, New Mexico.
 - (a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Cisco production and designated as the Boyd-Cisco Gas Pool. The discovery well is the David Fasken Arco "9" Morrison No. 1 located in Unit B of Section 9, Township 19 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM SECTION 9: N/2

(b) Create a new pool in Chaves County, New Mexico, classified as an oil pool for Queen production and designated as the South Lucky Lake-Queen Pool. The discovery well is the Dalport Oil Corporation Todhunter Federal No. 1 located in Unit F of Section 22, Township 15 South, Range 29 East, NYPM. Said pool would comprise:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM SECTION 22: SE/4 NW/4

(c) Create a new pool in Lea County, New Mexico, classified as a gas pool for Devonian production and designated as the East Ranger Lake-Devonian Gas Pool. The discovery well is the Union Texas Petroleum Corporation Shell State Com No. 1 located in Unit E of Section 6, Township 13 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 35 EAST, NMPM SECTION 6: W/2

(d) Abolish the Penrose Skelly-Grayburg Pool in Lea County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM

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SECTION 13: E/2
SECTION 24: E/2
SECTION 25: NE/4 and E/2 SE/4
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM SECTION 4: Lots 3, 4, 5, 6, 11, 12
            13, 14 and SW/4
SECTION 7: S/2
SECTION 8: S/2 and NE/4
SECTION 9: W/2
SECTION 16: S/2 and NW/4
SECTION 17: All
SECTION 18: All
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 19: All
SECTION 20: All
SECTION 21: All
SECTION 27: All
SECTION 28: All
SECTION 29: All
SECTION 30: All
SECTION 31: All
SECTION 32: All
SECTION 33: All
SECTION 34: All
SECTION 35: All
TOWNSHIP 22 SOUTH, RANGE 37 EAST, NHPM
SECTION 2: All
SECTION 3: All
SECTION 4: All
SECTION 5: All
SECTION 6: E/2
SECTION 7: NE/4
SECTION 8: All
SECTION 9: All
SECTION 10: All
SECTION 11: A11
SECTION 14: A11
SECTION 15: All
SECTION 16: A11
SECTION 17: E/2
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(Case 4806 continued)

(e) Extend the vertical limits of the Langlie-Mattix Pool in Lea County, New Mexico, to include the Grayburg formation. Also, extend said Langlie Mattix Pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM

SECTION 13: E/2 SECTION 24: E/2

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SECTION 25: NE/4 and E/2 SE/4
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 4:
            Lots 3, 4, 5, 6, 11, 12,
             13, 14 and SW/4
SECTION 7:
            S/2
SECTION 8: S/2 and NE/4
SECTION 9: W/2
SECTION 16: S/2 and NW/4
SECTION 17: All
SECTION 18: All
SECTION 19: All
SECTION 20: All
SECTION 21: All
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 27: All
SECTION 28: All
SECTION 29: All
SECTION 30: All
SECTION 31: A11
SECTION 32: All
SECTION 33: All
SECTION 34: All
SECTION 35: All
TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 2: All
SECTION 3: All
SECTION 4: All
SECTION 5: All
SECTION 6: E/2
SECTION 7: NE/4
SECTION 8: All
SECTION 9: All
SECTION 10: A11
SECTION 11: A11
SECTION 14: All
SECTION 15: All
SECTION 16: All
SECTION 17: E/2
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(f) Contract the Bagley-Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 35: N/2 NW/4

(g) Extend the North Bagley-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 35: N/2 NW/4

(h) Contract the Bough-Permo Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 9 SOUTH, RANGE 36 EAST, NIPM SECTION 17: NW/4

(i) Extend the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSEIP 18 SOUTH, RANGE 30 EAST, NMPM SECTION 26: S/2 SW/4

(j) Extend the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM SECTION 8: NW/4

(k) Extend the South Carlsbad-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMFM SECTION 7: W/2 SECTION 18: N/2

(1) Extend the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM SECTION 7: S/2 SECTION 18: N/2

(m) Extend the Dos Hermanos-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 30 EAST, NMPM SECTION 22: All SECTION 27: All

Docket No. 19-72

(n) Extend the South Empire-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM SECTION 6: S/2

(o) Extend the Fowler-Upper Yeso Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM SECTION 10: SE/4 SECTION 11: SW/4

(p) Extend the Golden Lane-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMFM SECTION 4: Lot 9, 10, 11, 12, 13, 14, 15 and 16

(4) Extend the Grayburg-Jackson Pool in Eddy County New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM SECTION 9: S/2

(r) Extend the Hardy-Blinebry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM SECTION 2: SW/4

(8) Extend the McDonald-Pennyslvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 13 SOUTH, RANGE 36 EAST, NMPM SECTION 33: SE/4

(i) Extend the Sand Dunes-Cherry Canyon Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM SECTION 26: NW/4 NE/4

(u) Extend the Sulimar-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM SECTION 27: SE/4 SE/4 SE/4 SECTION 34: NE/4 NE/4

(v) Extend the Vada-Pennsylvanian Pool in Roosevelt County, New Mexico, to include therein:

Examiner Hearing - August 23, 1972 -8-

(v continued from page 7 - Case 4806)

TOWNSHIP 8 SOUTH, RANGE 34 EAST, NMPM SECTION 34: SE/4

(w) Extend the Vest Ranch-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 30 EAST, NMPM SECTION 21: SE/4

(x) Extend the Washington Ranch-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

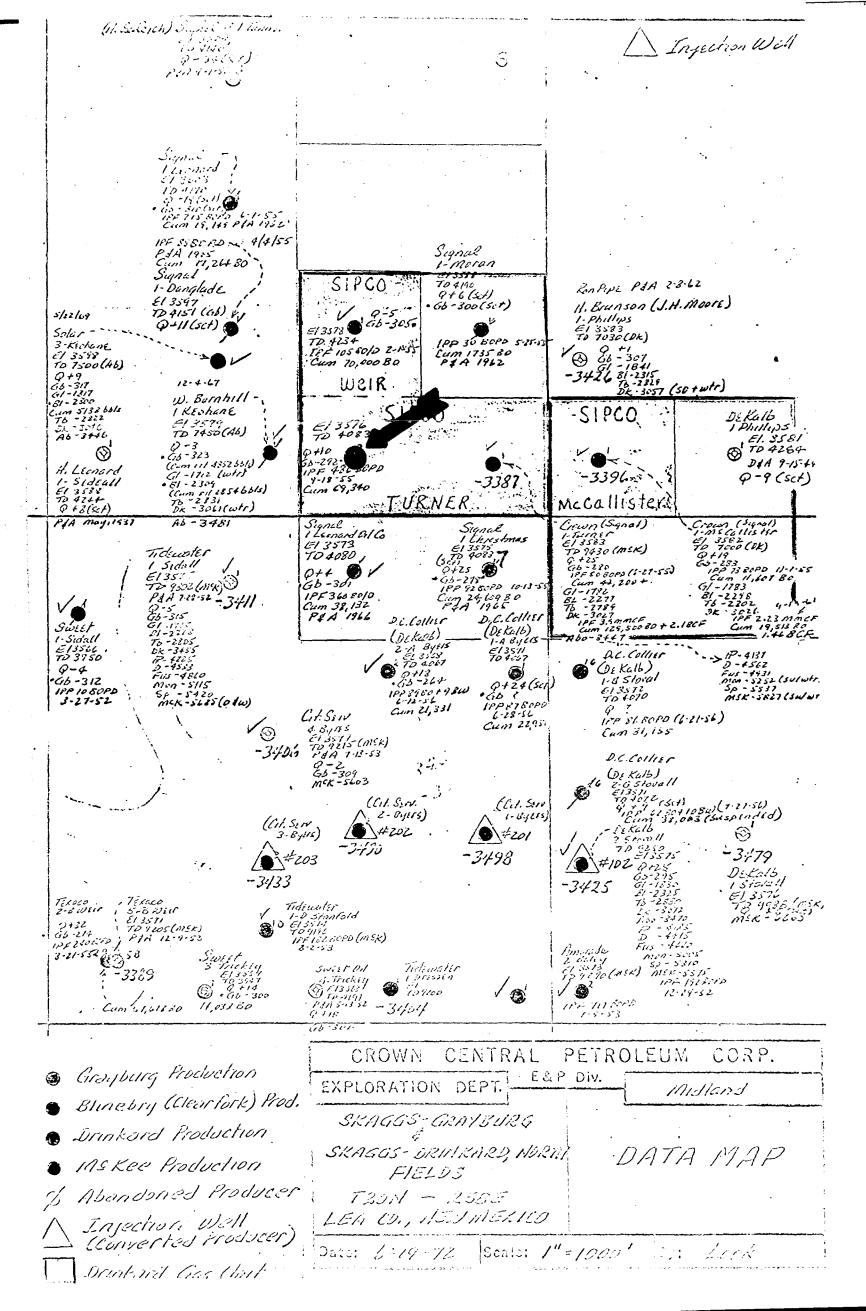
TOWNSHIP 25 SOUTH, RANGE 24 EAST, NMPM SECTION 27: All SECTION 35: W/2

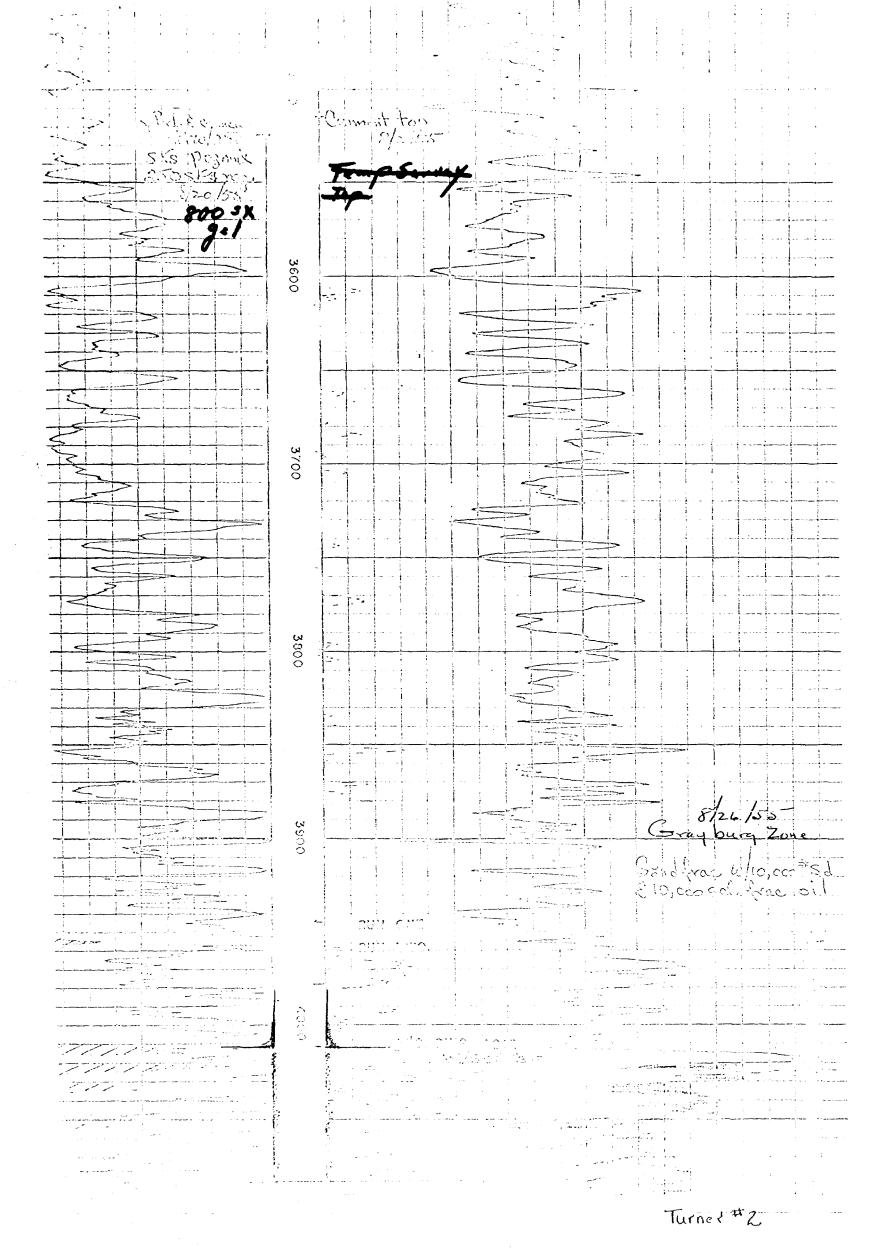
TOWNSHIP 26 SOUTH, RANGE 24 EAST, NMPM SECTION 3: All SECTION 4: E/2

CASE 4786% (Continued from August 9, 1972, Examiner Hearing).

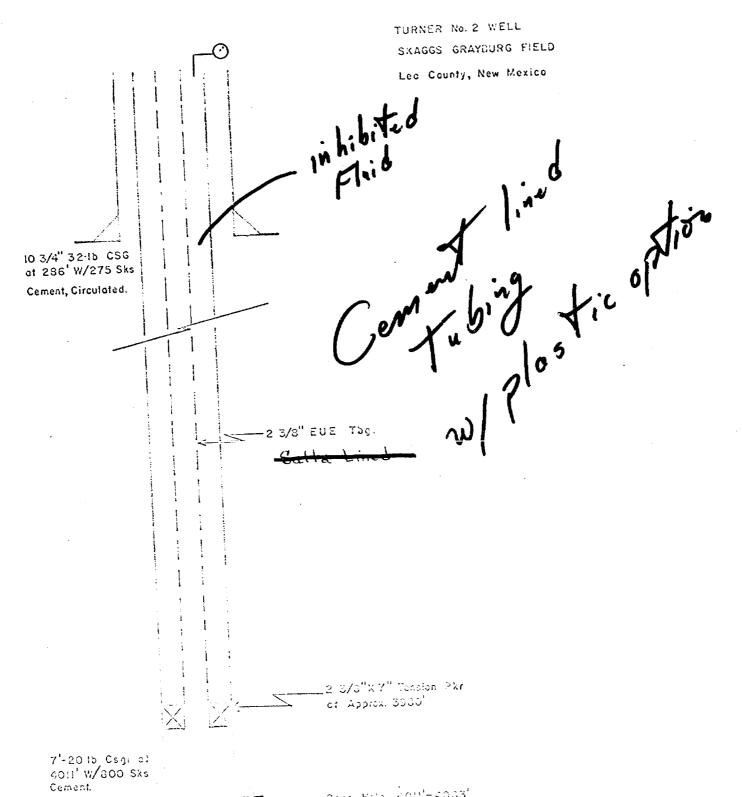
Application of Highland Production Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seaks authority to dispose of produced salt water into the Delaware formation in the open-hole interval from 4378 feet to 4418 feet in its Russell Federal Well No. 6 located in Unit K of Section 20, Township 26 South, Range 32 East, East Mason-Delaware Pool, Lea County, New Mexico,

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CROWN CENTRAL PETR. COAR PROPOSED SALTWATER DISPOSAL



Open Hole 4011'-4003' Grayburg Formation Injection Interval

TO-8 1/0" Hote of 4005

KAIVER

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

Gentlemen:

We have been notified by Crown Central Petroleum Corporation of their application, for approval, to inject saltwater into the Fred Turner No. 2 Well located 660' FSL and 1980' FEL, Section 6, Township 20S, Range 38E, Lea County, New Mexico. It is further understood that saltwater will be injected into the Grayburg Formation between the depths of 4011' - 4083'.

14 & 1 Co

TITLE

DATE

WAIVER

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

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Yours truly,

TRUSTEE FOR THE

ESTATE OF FRED TURNER, JR.

8-15-72

DATE

TITLE

WAIVER



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

Gentlemen:

We have been notified by Crown Central Petroleum Corporation of their application, for approval, to inject saltwater into the Fred Turner No. 2 Well located 660' FSL and 1980' FEL, Section 6, Township 20S, Range 38E, Lea County, New Mexico. It is further understood that saltwater will be injected into the Grayburg Formation between the depths of 4011' - 4083'.

Yours truly,

Imperial-American Resources Fund, Inc.-Debtor

S.M. Felle

TITLE

Agent

DATE

August 21, 1972

RECEIVED

AUG 27 1972

OIL CONSERVATION COMM.

CROWN CENTRAL PETROLEUM CORPORATION



PRODUCERS . REFINERS . MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS

SUITE 1002, WILCO BUILDING . MIDLAND, TEXAS 79701

July 20, 1972

RECEIVED

(me 4802

Mr. J. D. Ramey
Supervisor & Oil & Gas Inspector
New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

JUL 2 4 1972

OIL CONSERVATION COMM. HOBBS, N. M.

Re: Crown Central Petroleum Corp.
Application to Dispose Saltwater
into the Grayburg Formation
Fred Turner #2 Well
Skaggs - Grayburg Field
Lea County, New Mexico

Dear Sir:

Crown Central Petroleum Corporation desires to convert the subject well to Saltwater Disposal.

Attached are completed C-108 Forms with required supporting data.

Offset operators, Land Owner and the New Mexico State Engineer have been notified of this application.

Please set a hearing date at your earliest convenience.

Very truly yours,

n. E. Norris

District Production Manager

NEN:wt

00000 10000

Daio 8-11-72

() A-SR - 108 80 2 Form C 108 80 2 Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR					ADDRESS					
	tral Petrole	eum Corpo	ration		1002 W	ilco	Bld	g., Midl	and, T	Cexas 79701
LEASE NAME		, 	WELL NO.		FIELD			<u> </u>		COUNTY
Fred Turne	er		2		Skaggs	- G	rayb	urg		Lea
LOCATION										
บพ	IT CETTER	0 ; we	LL 15 LOCATED	660	FEET FR	OM THE		outh L	NE AND	1980 FEET FROM
East LIN	NE, SECTION	6 том	VNSHIP 20S	RA	NGE 38E		NMPM.			
			r		TUBING DAT				т т	
NAME OF ST	RING	SIZE	SETTING DEPTH	s	ACKS CEMEN	*T	то	POFCEME	NT	TOP DETERMINED BY
		10-3/4"	284 '		775		۵.			
INTERMEDIATE		10-3/4		+	275		C1	rculated		· · · · · · · · · · · · · · · · · · ·
	i	None								
LONG STRING		110220		†			50	sks.		Top. 3515'
		7"	4011'		800		ĺ .	sks. at	35251	-
TUBING				NAME,	MODEL AND D	EPTH OF	TUBING	PACKER		
Proposed		2-3/8"	3980'	Gui	berson M	lode1	AF '	Tension	Pkr. a	it 3980'
NAME OF PROPOSED IN	JECTION FORMATION				TOP OF FORM				BOTTOM	F FORMATION
Grayburg	THE SAFENCE OF	ANNIN 000 3	Tospeonario		EN HOLE PR	3868				w T.D.
2-3/8" Tubi		ANNULUS!	Ī		·				Cilon	
		IF ANSWER IS	Open Ho					4083'	HAS WELL	. EVER BEEN PERFCRATEO IN
DISPOSAL?			ourg producer			ZONE		ZONE OTH	ZOTHER THAN THE PROPOSED INJEC-	
LIST ALL SUCH PERFOR	RATED INTERVALS A				SQUEEZE EACH	ī			l	Yes
3525' - cem	nented w/800	sks.								
DEPTH OF BOTTOM OF FRESH WATER ZONE IN	DEEPEST		DEPTH OF BOTTOM C					DEPTH OF TOP	OF NEXT	LOWER
150 ±			OTE OR GAS ZONE IN	None	· · ·		ļ			linebry)
ANTICIPATED DAILY	MINIMUM	TMAXIMUM	OPEN OR CLO		E SYSTEM	IS INJE	ECTION URE?	TO BE BY GRA		APPROX. PRESSURE (PSI)
(BBLS.)	30	50		Clos		İ		ressure		30 psi
ANSWER YES OR NO WH	DEGREE AS TO BE UN	FIT FOR DOMES		R TO BE	DISPOSED OF	NATUR	AL V/AT	ER IN DISPO-	ARE WATE	R ANALYSES ATTACHED?
STOCK, IRRIGATION, OF		ies	Dri	<u>inkar</u>		Gra	aybu	rg	L	Yes
NAME AND ADDRESS OF	SURFACE OWNER (C	IR LESSEE, IF S	STATE OR FEBERAL LA	AND)						
LIST NAMES AND ADDR	ESSES OF ALL OPER	ATORS WITHIN	ONE-HALF (1) MILE O	F THIS I	NJECTION WEL					
			-							
David C. CO	Tilei - box	#2 Star	Rt., Artesi	la, N	. M. 8	8210				
l Imperial Am	erican Mona	eemen hali	Nigland	Sav	inge Bld	α)	M: 21.	and Tov	20 70	701
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SENT TO EACH OF THE	FOLLOWING?	1			OF THIS WELL	١ .		HALF MILE	105 450	
Yes	TEMS ATTACHED TO	PLAT OF ARE	Yes		ELECTRICAL I		<u>Yes</u>		DIAGRAMA	Yes MATIC SKETCH OF WELL
THE APPLICATION (SE	E RULE 701-B)	1	Yes		i I		Zoc.		1	
L	I harabu aastif	1			nd constate		Yes		1	Yes
22	i nereby certif	y that the int	ormation above is	s true a	na complete	to the	: pest (or my knowl	euge and	oenet.
11. 8	news		Distric	t Pro	oduction	Mana	ager			7-20-72
	(Signature)				(Title)					(Date)

NOTE: Should waivers from the State Engineer, the surface owher, 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.

Case 4802

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

Crown Central P	1002 1	1002 Wilco Bldg., Midland, Texas 79701						
EASE NAME		WELL NO.	FIELO	WAICO DA	iug., ritu	rano, 1c	COUNTY	
Fred Turner		2	Skagg	s - Gray	burg		Lea	
CATION					_			
, UNIT LETTES	·i	WELL IS LOCATED	560 FEET P	ROM THE	South	INE AND	1980 FEET FROM TI	
East LINE, SECTION	on 6 ,	TOWNSHIP 208	RANGE 38E		PM.			
	<u> </u>		AND TUBING DA		<u> </u>			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEME	NT	TOP OF CEME	ENT	TOP DETERMINED BY	
RFACE CASING	10-3/4'	284'	275	(Circulated	d		
FERMEDIATE	None							
G STRING 711		4011'	800	,	50 sks. 800 sks. at 352		Top. 3515' T	
BING			NAME, MODEL AND	SEPTH OF TUE	ING PACKER	<u></u>		
Proposed	2-3/8'	3980'	Guiberson		Tension		-	
ME OF PROPOSED INJECTION F	GRMATION		TOP OF FORE	3868 °		Below		
INJECTION THROUGH TUBING.	CASING, OR ANNULUS?	PERFORATION	S OR OPEN HOLE! P		RVAL(S) OF INJE	1	1.0.	
2-3/8" Tubing		Open Ho	le	4011' -	40831			
THIS A NEW WELL DRILLED F SPOSAL?	OR IF ANSWER	IS NO, FOR WHAT PURPO		NALLY DRILLE	0?	HAS WELL E ZONE OTHER TION ZONE?	VER BEEN PERFORATED IN A THAN THE PROPOSED INJECTION	
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TICIPATEO DAILY MINIMUM (SECTION VOLUME) 30	1	1	SED TYPE SYSTEM Closed	IS INJECTION PRESSURE?	ON TO BE BY GRA	•	APPROX. PRESSURE (PSI)	
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ME AND ADDRESS OF SURFACE	OWNER (OR LESSEE, I							
Thames and addresses of David C. Collier		•		88210				
Imperial America	n Management	Co Midland	Savings Blo	dg., Mid	lland, Tex	kas 797	01	
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	JUL 25 1972							
	ALIENALIA CONTRACTOR	COMIA.	EACH OPERA		HE-HALF MILE	THE NEW ME	EXICO STATE ENGINEER	
VE COPIES OF THIS COLLOW! YES	Santa Fe	Yes	1	Yes	3	1	Yes	
VE COPIES OF THIS CALLOCAL YEAR TO EACH OF THE FOLLOWING YEAR THE FOLLOWING ITEMS ATT IS APPLICATION (SEE RULE 7	Santa Fe	Yes	ELECTRICAL			DIAGRAMMA	Yes TIC SKETCH OF WELL Yes	

1.3. Naccis	District Production Manager	7-20-72
(Singular)	(Title)	(Date)
(Signature)	(7:1112)	(Date)

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 Ail 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.

Case 4802

7-20-72

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

		· · · · · · · · · · · · · · · · · · ·	ADDRESS					·····	
Crown Central P	etroleum Corpo	ration	1002	Wilco	Bld	g., Mid	land,	Texas 7	9701
EASE NAME		WELL NO.	FIELD			*		COUNTY	,
Fred Turner		2	Skag	gs ~ G	ravb	urr			Lea
OCATION		L							
UNIT LETTER	R; WE	LL IS LOCATED	560 FEET	FROM THE	8	outh	LINE AND	1980	FEET FROM TH
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			G AND TUBING D						
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TERMEDIATE			 						
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NG STRING	None		 		50	sks.		Top	. 3515 Te
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Grayburg	ORMATION		100000	3868			- 1	SOTTOM OF FORMATION	
INJECTION THROUGH TUBING.	CASING OR ANNULUS?	PERFORATION	NS OR OPEN HOLE?			AL(S) OF IN		OW T.D.	
2-3/8" Tubing		Open Ho				40831			
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3525 - cemented opth of bottom of deepest esh water zone by this are 150 - TICIPATED DAILY MINIMUM ection volume	FA .	DEPTH OF BOTTOM O OIL OR GAS ZONE IN OPEN OR CLO	OF NEXT HIGHER I THIS AREA NOTE SEO TYPE SYSTEM	IS INJ	ECTION	DEPTH OF TO OIL OR GAS	20NE IN TH	LOWER IS AREA Blinebry	
ECTION VOLUME		1	Closed		Pressure			30 psi	
SWER YES OR NO WHETHER TH	S TO BE UNFIT FOR DOMES	E MIN- WATE	R TO BE DISPOSED	OF NATUE	AL WAT	ER IN DISPO	- ARE WAT	ER ANALYSES	ATTACHED?
ALIZED TO SUCH A DEGREE AS OCK, PREGATION, OR OTHER G ME AND ADDRESS OF SURFACE	SENERAL USE - Yes	Dri	R TO BE DISPOSED BYDUR3 & LINKARD	Gr	aybu	rg		Ĭes	
ME AND ADDRESS OF SURFACE ST NAMES AND ADDRESSES OF David C. Collier Imperial America OIL Ve copies of this application of the following	E OWNER OR LESSEE, IF S ALL OPERATORS WITHIN OF BOX #2 Star IN Management C IUL 25 1972 ENSERVATION CO	Driver or FEDERAL LA	inkard AND) F THIS INJECTION (88210	Midl	rr	xas 7	9701	
ME AND ADDRESS OF SURFACE ST NAMES AND ADDRESSES OF David C. Collier Imperial America	E OWNER OR LESSEE, IF S ALL OPERATORS WITHIN OF BOX #2 Star IN Management C ONSERVATION CONTINUE TO THE PROPERTY OF AREA TACHED TO PLAT OF AREA	Driver or FEDERAL LA	inkard AND F THIS INJECTION IA, N. M. S Savings B	88210	Midl	and, Te	xas 7	9701 MEXICO STATE YES	

(Title) NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. nor 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 Fr 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.

(Signature)

District Production Manager

CROWN CENTRAL PETROLEUM CORPORATION



PRODUCERS - REFINERS - MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS
SUITE 1002, WILCO BUILDING - MIDLAND, TEXAS 79701

July 20, 1972

Care 4802

Mr. David C. Collier Box #2 Star Rt. Artesia, New Mexico 88210

Imperial American Management Co. Midland Savings Building Midland, Texas 79701

Re: Crown Central Petroleum Corp.
Application to Dispose Saltwater
into the Grayburg Formation
Fred Turner #2 Well
Skaggs - Grayburg Field
Lea County, New Mexico

Gentlemen:

This is to notify you that Crown Central Petroleum Corporation is making application to convert the subject well to Saltwater Disposal. Attached for your information is a copy of Form C-108 as filed with the New Mexico Oil Conservation Commission 7-18-72.

Very truly yours,

n. E now

N. E. Norris District Production Manager

NEN:wt

JUL 25 1972

OIL CONSERVATION COMM.

Santa Fe

CROWN CENTRAL PETROLEUM CORPORATION



PRODUCERS - REFINERS - MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS
SUITE 1002, WILCO BUILDING - MIDLAND, TEXAS 79701

July 20, 1972

Care 4802

Fred Turner, Jr. Estate 219 So. Colorado Midland, Texas 79701

Re: Crown Central Petroleum Corp.
Application to Dispose Saltwater
into the Grayburg Formation
Fred Turner #2 Well
Skaggs - Grayburg Field
Lea County, New Mexico

Dear Sir:

This is to notify you that Crown Central Petroleum Corporation is making application to convert the subject well to Saltwater Disposal. Attached for your information is a copy of Form C-108 as filed with the New Mexico Oil Consservation Commission 7-18-72.

Very truly yours,

n. 3 news

N. E. Norris

District Production Manager

NEN:wt



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10 Trope Many Street PXACC

Services, Trope Date Street Stree Hugh Story 6 - 19 - 76 14 - 10 - 10 15 - 10 15 - 10 Hoten To Till Story 20 38 CHEE 17

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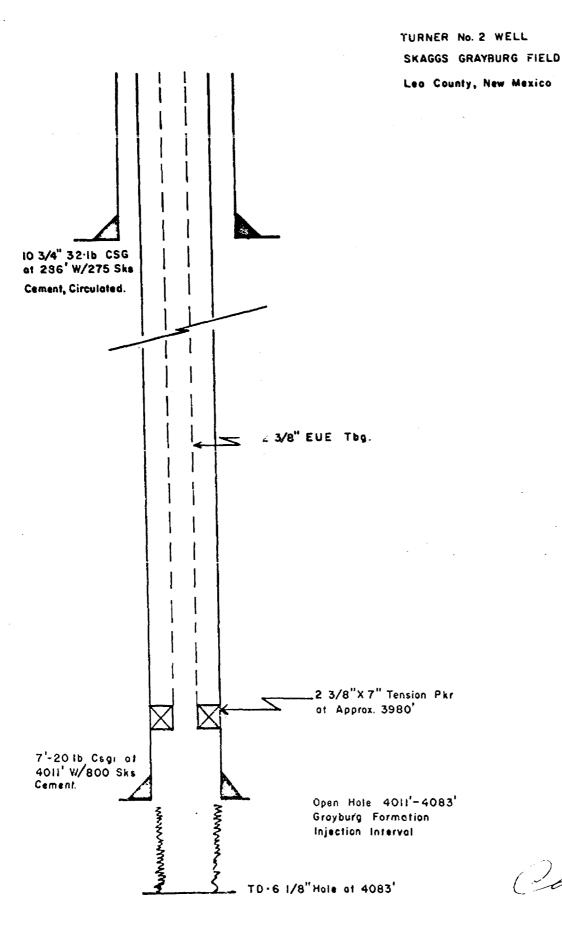
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ARRENDAR LUMBANANA MARANANA DA COMPANDA DE MOSTE DE COMPANDE

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY WATER ANALYSIS REPORT TO: CROWN CENTRAL PETROLEUM CORPORATION BØX GG LEVELAND, TEXAS 79336 LABORATORY NO .: HOBBS DATE: WELL NAME + NØ .: WEIR #1 DEPTH: 4400 FT GREYBUG GREYBURG FIELD: FØRMATION: COUNTY: LEA STATE: NEW MEXICO WELLHEAD SAMPLE PT .: SAMPLE ID: PRØDUCED DISSØLVED SØLIDS **ØTHER PRØPERTIES** CATIONS MG/L MEQ/L SØDIUM. NA 5985 259 6.60 PH = SP GR = CALCIUM, CA 1000 49 1.016 MAGNESIUM. MG 110 .0000 1338 RESISTIVITY= ANIONS CHLORIDES, CL SULFATES, SØ4 12764 359 19 950 BICARBONATES, HC03 2440 39 THE CALCIUM CARBONATE STABILITY INDEX= 2.2222 THE CALCIUM SULFATE STABILITY INDEX IS -32.49 A NEGATIVE NUMBER INDICATES THE SCALE IN SOLUTION DOES NOT EXCEED THE SATURATION VALUE AND SHOULD NOT PRECIPITATE. REMARKS AND RECOMMENDATIONS: WALLY HARRELL

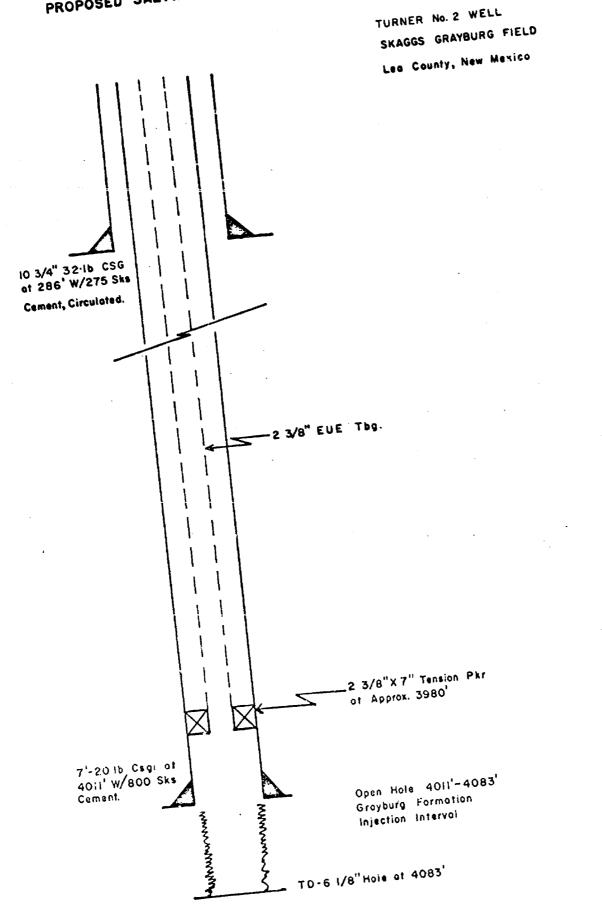
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CROWN CENTRAL PETR. CORP. PROPOSED SALTWATER DISPOSAL



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CROWN CENTRAL PETR. CORP. PROPOSED SALTWATER DISPOSAL



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GMH/dr



BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Long

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

CASE No. 4802

Order No. R-4387

APPLICATION OF CROWN CENTRAL PETROLEUM CORPORATION 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 23 , 1972 at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this day of August , 1972 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:

- (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, Crown Central Petroleum Corporation is the owner and operator of the Fred Turner Well No. 2

 located in Unit O of Section 6, Township 20 South, Range

 38 East, NMPM, Skaggs (Grayburg) Pool , Lea

 County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the <u>Grayburg</u> formation, with injection into the <u>open-hole</u> interval from approximately 4011 feet to 4083 feet.
- (4) That the injection should be accomplished through 2% inch

 Crosst or plastic-lined tabing installed in a packer set at

approximately <u>3980</u> feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus er 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 applicant, <u>Crown Central Petroleum Corporation</u> ,
is hereby authorized to utilize its <u>Fred Turner Well No. 2</u> ,
located in Unit 0 of Section 6 , Township 20 South , Range
38 East, NMPM, Skaggs (Grayburg) Pool , Lea
County, New Mexico, to dispose of produced salt water into the
Grayburg formation, injection to be accomplished through
3780 feet, with injection into the open-hole interval
from approximately 4011 feet to 4083 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
or the annulus loft open at the surface in order to determine

- (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.

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