Case Number 1100

Application Transcripts.

Small Exhibits

J. M. HUBER CORPORATION

OIL AND GAS DIVISION 1900 WILCO BUILDING MIDLAND, TEXAS 79701

MIDLAND DISTRICT OFFICE

State of New Mexico Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501 APR 13 1981

OIL CONSTRUCTION DIVISION
SANTA FE

Care 4280

23899

RE: Stoltz State SWD #1-M in 6-15-34 SWD-230, Sec. 6, T-15-S, R-35-E

Gentlemen:

Disposal into the San Andres and Glorieta formations in the above captioned well was approved by SWD-230 on August 29, 1980. The order specified a limiting injection pressure of 930 psi. During Ocotober, 1980, surface injection pressures of 1400 psi were observed. Following this, disposal into this well was restricted so as not to exceed the specified injection pressure of 930 psi. A workover was performed in January, 1981 to reacidize the perforations. Following this work water is currently being injected at a rate of 360 BWPD with a surface injection pressure of 550 psi to 580 psi. A summary of this work is shown on the attached Form C-103.

Very truly yours,

J. M. HUBER CORPORATION

District Production Manager

RGS:dc

Attachments

SAUTATE NEW MEXICO OIL CONSERVATION COMMISSION	Form C ₂ 10) Superseder Old C-102 and C-103 Uffective 1-1-65
U.S.G.S. LAND OFFICE CUCHATOR	State Off & Gas Leane No.
	K-2814
SUNDRY NOTICES AND DEPORTS ON VELLS TO NOT USE THIS FORM FOR INCLUSION TO LIGHE ON TO FURTHER HAS A DIFFERENT RESERVOIR. USE TAPLECATION FOR MEMORY DEPORTS CHIEF FOR ONE SASSMORE RESERVOIR.	7, Unit Agreement State
Rece Company Salt Water Disposal Well	6. Fam or Lease Horse
J. M. Huber Corp.	Stoltz State SWI
1. Address of Communication 1900 Wilco Bldg. Midland, Texas 79701	9, Well Ro.
VALUES THE SOUTH LINE AND 554 FEET FROM THE SOUTH LINE AND 554 FEET FROM	Morton San Andres
West 136, SECTION 6 TOWNSHIP 15-S RANCE 35-E NMPM.	
15. Elevetion (5 low whether DF, RT, GR, etc.)	12. County
4061' DF	Lea
Check Appropriate Box To Indicate Nature of Notice, Report or Oth Notice of Intention to: subsequent	ier Data REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK TEMPORARILY ABANDON COMMENCE DRILLING OPMS. PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB	ALTERING CASING PLUG AND ABAHDOHMENT
OTHER	·
17. Describe Proposed of Completed Operations (Clearly state all pertinent details, and give pertinent dates, including work) SEE RULE 1103.	estimuted date of starting any propo
Summary of work done 1-30-81 through 2-13-81. RU NL McCullough ran 6600' to 4000'. Temp Survey showed perf 5592' to 5633' taking most MIRU pulling unit. Lowered 2 3/6" tip and pkr to 5452' and set in compression, RU Western Co. acidized perfs 5592'-5585', 5645'-5633' 6092'-6073', 6205'-6175', and 6404'-6378, w/5000 gallons 15% acid. press 3800#, avg. press 3650#, Air 9.4 BPM, ISIP 1100#, 10 min SIP back acid water. SWI SDON. Baker 4½" lockset pkr would not hold, hole w/pkr. Re-dress pkr. GIH w/2 3/8" internally plastic coated tbg and Baker 4½" Lockset pkr. Spotted pkr fluid from 4491' to sux 2 3/8" csg amulus. Set pkr at 4491' at 4 points tension. Flang head and RD. Water is currently being injected at a rate of 360 BW of 550 psi. The work was completed 2-13-81.	t of the fluid. 10 points ', 5995'-5980', Breakdown '00#, flowed trip out of 4.7#/ft. EUE arface in 4 ½'' ged up well-
8. Thereby centry that the information above to true and complete to the best of my knowledge and belief. CHEC. Dist. Production Manager	DATE

COMDITIONS OF APPROVAL, IF ANYE

	หรื. ณ ดาแกร คดดเพ เมรายแบบ เดน			Form C+103 Supersedes (Hd ~ C+102 and C+103
	FILE U.S.G.S.	NEW MEXICO OF	II. CONSERVATION COMMISSION	Effective 1-1-65
	LAND OFFICE CPERATOR			State Off & Gas Lease No.
	(DO NOT USE TH	SUNDRY NOTICES AND REPOS	ETS ON WELLS CA HILD FACE TO A DEFFERENT RESERVOIR. JACH SITH SPECEPOSALS.	
	2. Krug of Gyptalor	OTHER.		7. Unit Agreement Nume
	J. M. H	ber Corp.		6. Form of Lease Name Griffin
	·	co Bldg., Midland, Texas 79	701	9. Well No. 1
	G. Lecution of Well UNIT LETTER A	660 FERT FROM THEN	orth LINE AND 660 FEET F	McDonald (Perm)
	THE East	LINE, SECTION 4 TOWNSHIP	14-S RANGE 36-E NA	IPAL.
		15. Elevetica (Show 3949.9' G	whether DF, RT, GR, etc.)	12. County Lea
	16. NO	Check Appropriate Box To Indirice of intention to:	cate Nature of Notice, Report or subseque	Other Data ENT REPORT OF:
	PERFORM RENEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABAND	DN REMEDIAL WORK COMMENCE DRILLING OPNS. CASING TEST AND CEMENT JQ8	ALTERING CASING PLUG AND ABANDONMENT
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	17. Describe Proposed on work) see RULC 10	Completed Operations (Clearly state all pening).	nent details, and give pertinent dates, includ	ling estimated date of starting any proposed
	2-6-81	Pressure tested 5 1/2" csg v Baker Lockset pkr w/shut-off Could not pump into perfs 10	f valve at 10,403' above per	f 10,502'-10,511'.
	3-15-81	Set retrievable BP at 9849'	w/2 sxs sand on top.	
	3-16-81	Broke circulation to surface pit.	e, cmt w/2,760 sxs cmt, circ	ulated 482 sxs to
<	3-17-81 Thru 3-21-81	Tagged top cmt at 8709'. Dr 1500 psi. Held OK. Pulled	rilled cmt out to 9726'. Te retrievable bridge plug.	sted csg leak to
	3-24-81	Ran production equipment.		
	4-1-81	24 hr pumping test 43 BO and	1 208 BW, gas TSTM, 10 1/2 -	120" SPM.
	18. I hereby of tilly that the	information above is true and complete to the	e best of my knowledge and belief,	
_	BICKED Solet	1 stk virus	Dist. Production Manager	r pare
,				0.675
	A PERSONAL BY	T171 C		UATE

CORDITIONS OF APPROVAL, IF ANYI

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1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

Santa Fe, New Mexico December 17, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of J. M. Huber Corporation) Case No. 4280 for salt water disposal, Lea County, New Mexico.

)

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF PEARING



MR. NUTTER: The hearing will come to order. The next case will be Case 4280.

MR. HATCH: Case 4280. Application of J.

M. Huber Corporation for salt water disposal, Lea County,

New Mexico.

KELLAHIN: If the Examiner please, Jason Kellahin, Kellahin and Fox, Santa Fe, appearing for the Applicant.

We have one witness I would like to have sworn.

(Witness sworn).

(Whereupon, Applicant's Exhibits 1 through 7 were marked for identification.)

FLOYD MEADE

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you state your name, please?
- A Ployd Meade.
- O By whom are you employed and in what position, Mr. Meade?
 - A J. M. Huber Corporation, petroleum engineer.

- O Are you the district production superintendent for Huber?
 - A Yes.
- Q Have you testified before the Oil Conservation Commission and made your qualifications a matter of record?
 - A Yes, I have.
- MR. KELLAHIN: Are the witness' qualifications acceptable?
 - MR. NUTTER: Yes, they are.
- O (By Mr. Kellahin) Mr. Meade, what is proposed by J. M. Huber Corporation in Case 4280?
- A We are proposing to convert the Stoltz State
 No. 1 Well, located in Unit "M", Section 16, 15 South,
 35 East to a salt water disposal well to be disposed of
 in the Wolfcamp Formation.
- O Is that a producing formation or has it produced?
 - A It did produce at one time, yes.
 - O This particular well was a producing well?
 - A Yes, sir.
- O Referring to what has been marked as Exhibit
 No. 1, would you identify that exhibit?

A That is our Form C-108 that we filed with the Commission making application for this disposal well.

Q Then, referring to what has been marked as Exhibit No. 2, would you identify and discuss that exhibit?

A That's a brief production history of the surrounding wells. The first one, Stoltz State, is our well that we are proposing to convert to a salt water disposal. It produced a total of 22,594 barrels and was abandoned in January of '69.

Last production prior to abandonment was three barrels of oil and three barrels of water per day. The Union California State 7, which is the south offset has cumulative production through August of approximately 128,000 barrels of oil and a three-month average June, July and August of this year was 5.4 of oil and 1.2 of water daily.

The Gulf Featherstone Federal No. 1, which is the southwest diagonal offset has cumulative production of approximately 27,000 barrels and last reported production was in December of 1969. That month it produced 100 barrels of oil: no water.

The Union Gulf Federal No. 1, which is the

south offset to the Gulf Featherstone Federal has cumulative production through August of 132,000 barrels: three-month average June, July and August, 9.4 of oil and 6.7 of water daily and the last well, the Cabot Corporation State "Q" 1, which is 340 acre location south of our proposed disposal well had cumulative production of 1,000 barrels: currently producing seven and one half of oil and one half of water daily.

- Q Now, on this Gulf Oil Corporation Well, you said the last reported production was in December of '68?
 - A Yes.
- Ω Do you know what the status of that well is now?
- A There hasn't been anything more reported in the New Mexico Oil and Gas Engineering Committee Reports, so I assume it's either plugged or temporarily abandoned anyway.
- O Now, referring to what has been marked as Exhibit No. 3, would you identify that exhibit?
- A This is a land plat showing our well and the wells that we just referred to, plus the north Morton Field lying to the north.

- Now, the wells listed on your Exhibit No. 2 are all of the wells in the immediate vicinity of your disposal well: is that correct?
 - A Yes, that's right.
- Q The wells to the north, are they in the same pool or are they in the north Morton?
- A They are in the north Morton Field. Our Stoltz State is the furthest north Morton-Wolfcamp Field Well.
- Ω It is the same formation, but has been delinated as a separate pool· is that correct?
 - A That's right.
- O Now, referring to what has been marked as Exhibit No. 4, would you identify that?
- A That is a diagrammatic sketch of our well installation: thirteen and three-eighths surface casing set at 3195 feet and dement was direculated. Eight and five-eighths inch casing set at 4525, top of the dement behind it 3600; four and a half inch casing set at 10,450, top of the dement behind it 0690. Two and three-eighths inch tubing with packer at 9800.

The injection perforations are 10.353 to 10,369, 10.373 to 376, 10.414 to 419.

- Now, will you use an internally coated tubing?
- A No. We will treat this water for corrosion and scale.
- Q Will you fill the casing tubing anulus with an inert fluid?
 - A We will fill it with oil.
 - Q Will you put a pressure gauge at the surface?
 - A Yes.
- Q What is the source of the water you will disoose of in this well?
- A The primary source was our Stoltz Federal No.

 1, located in the southeast quarter of Section 12.
- O Now, what volume of water will you dispose of in the well?
- A Well, we have approximately 100 barrels a day in our well. However, since we initiated this application the other operators in the field have made a request as to whether they could also dispose of water: so, probably initially we are looking at 4 to 500 barrels daily with a maximum now of maybe 12 to 1500 barrels.
- O So. to that extent, you would change your application as shown on the Form C-108?
 - A Right. The 108 should be changed, of course.

- O To a maximum of what?
- A Twelve to 1500 and initially 3 to 500.
- Now, in your opinion, will this formation take that volume of water?
 - A Yes, I believe it will.
 - Q Will you have any pressure on the water?
- A Initially, it should go on a gravity: we never expect pressure over a thousand pounds, surface pressure.
 - O Even with the 1500 ---
 - A Right.
 - 0 -- barrels per day?
 - A Right.
- Q Now, referring to what has been marked as 5, would you identify that exhibit, please?
- A That is a letter from Hondo Oil and Gas

 Company, who was the original lessee of this state lease,

 stating that they have no desire to do anything additional

 to the well, giving Huber Corporation permission to convert

 it to a salt water disposal well.

Also, in that exhibit is a letter to offset operators, who were Gulf Oil Corporation. Union Oil of California, Charles R. Reed, Humble Oil and Refining Company, requesting waivers to objection on this application.

We did receive back and are attached waivers from Humble, Gulf and Union Oil: Charles Reed did not reply.

Q Now, do you have a water analysis of the water to be disposed of in this well?

A Yes, sir. This is the Exhibit No. 6. There is a letter from Tretolite with a water analysis and scaling tendency report.

They state that the water is probably --- will have a scaling tendency and recommend a treatment. In addition to this, we will run coupons with corrosion inhibitor to check our pipe and make sure there's no corrosion or scaling, either one are taking place.

Q Then, attached to that is a water analysis: is that correct?

A Right. These water analyses and scaling tendency reports are attached.

Q Exhibit No. 7, is that a log of the subject well?

A Yes.

Mave you marked any information on that log?

A That log shows the backer and also the berforations.

Q Were Exhibits 1 through 7 prepared by you or under your supervison?

A Yes, sir.

MR. KELLAHIN: At this time I would like to offer in evidence Exhibits 1 through 7, inclusive.

MR. NUTTER: Applicant's Exhibits 1 through 7 will be admitted in evidence.

MR. KELLAHIN: That's all I have on direct examination, Mr. Nutter.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Meade, the four wells, plus the subject well that's mentioned here on Exhibit 2 and shown on Exhibit 3, are those the only wells that have produced from the Wolfcamp Formation in this area?

A No. sir. On farther south there is our Stoltz Federal, which was our primary source of getting rid of the water.

- 0 Producing water?
- A Right.
- Q Where is it?
- A In Unit "J" of Section 12
- On That's producing from the Wolfcamp?

A Right, and also to the southeast there's the Union A-1: to the southwest is the Union Reed Well.

- One with the double circle there?
- A Yes, sir, and then further south is the Union Araquay.
 - 0 Which one is that?
 - A It's the one in "B" of 13.
 - Those are all producing from the Wolfcamp?
 - A Yes, sir.
- Q Are they producing from the equivalent zone in the Wolfcamp Formation that you will be injecting water here?
- A Well, I believe the Commission recognizes these as a common reservoir. However, these four wells down here are entirely different type of wells.

They are exhibiting a water crive and make a lot of water, whereas the wells to the north did not.

- O Structurally, how do these four wells sit in comparison with this subject well, Stoltz State No. 12
 - A Stoltz State is a low well.
 - O It's lower?
 - A Yes. sir.
 - 9 Do you know the perforated intervals in these

four wells that are presently producing?

- A No, sir. I sure don't.
- Q Do you have any idea approximately what their perforated interval will be?
- A Well, the interval is comparable to the ones marked on the log. I mean it's all Wolfcamp.
- O They are comparable intervals, but structurally
 lower is that it?
 - A The Stoltz State is structurally lower: yes.
- Q Now, you mentioned that you were producing about 100 barrels of water from your well. Now, the other operators are producing additional water and may go into the system.

You said you might go as high as 12 to 1500 barrels of water. Is that the amount of water that is being produced from these four wells?

A No, sir, not now. I don't believe anyone is using artificial lift activity because we have no place to but the water, we have to haul it.

As soon as we have a disposal system, I will install pumping units.

O In other words, you are handling limited quantities of total fluid right now, but you can increase

that?

A Right: because we are having to haul the water.

MR. NUTTER: Are there any other questions of Mr. Meade? He may be excused.

(Witness excused).

MR. NUTTER: Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: That's all, Mr. Nutter.

MR. NUTTER: Does anyone have anything they wish to office in Case 4280? We will take the case under advisement.

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WITNESS	PAGE
FLOYD MEADE	
Direct Examination by Mr. Kellahin	2
Cross Examination by Mr. Nutter	10

EXHIBITS

Applicant's Exhibits 1 through 7

2

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, GLENDA BURKS, 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.

Lenda Burks Notary Public

My Commission Expires:

March 12, 1973

I do hersby cortify that the formality is, a complete record of the years 1 4280, heavy by ac on 1240, heavy by account of the property of the 1240, heavy by account of the property of the 1240, heavy by account of the property of the 1240, heavy by account of the 1240, heavy by accou



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA FE 87801 GOVERNOR DAVID F. CARGO CHAIRMAN

AND COMMISSIONER ALEX J. ARMIJO

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

December 24, 1969

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

		4280	~
le:	Case No	4281	
	Order No.		R-3900
	Applicants	1	

J. M. Huber & Continental Oil Co.

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:
Hobbs OCC	×
Artesia OCC	
Aztec OCC	
Other	R-3899 to State Engineer Office

DEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE No. 4280 Order No. R-3899

APPLICATION OF J. M. HUBER CORPORATION FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:30 a.m. on December 17, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 24th day of December, 1969, 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, J. M. Huber Corporation, is the owner and operator of the Stoltz State Well No. 1, located in Unit M of Section 6, Township 15 South, Range 35 East, NMPM, Morton-Wolfcamp Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Lower Wolfcamp formation, with injection into the perforated interval from approximately 10,358 feet to 10,419 feet.
- (4) That the injection should be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 9800 feet; that the casing-tubing annulus should be filled with an inert fluid; that a pressure gauge should be attached

-2-CASE No. 4280 Order No. R-3899

to the annulus at the surface in order to determine leakage in the casing, tubing, or packer; and that the produced salt water should be continuously treated prior to injection to prevent casing corrosion and coupon corrosion tests should be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

(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, J. M. Huber Corporation, is hereby authorized to utilize its Stoltz State Well No. 1, located in Unit M of Section 6, Township 15 South, Range 35 East, NMPM, Morton-Wolfcamp Pool, Lea County, New Mexico, to dispose of produced salt water into the Lower Wolfcamp formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 9800 feet, with injection into the perforated interval from approximately 10,358 feet to 10,419 feet;

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with an inert fluid; that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer; and that the produced salt water shall be continuously treated prior to injection to prevent casing corrosion; that coupon corrosion tests shall be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

- (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.

-3-CASE No. 4280 Order No. R-3899

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

STATE OF HEW MEXICO OIL COMPREVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

DOCKET: EXAMINER HEARING - WEDNESDAY - DECEMBER 17, 1969

9:30 A. M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

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

- CASE 4276: Application of Humble Oil & Refining Company for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio of 6,000 cubic feet of gas per barrel of oil in the Oil Center-Blinebry Pool, Lea County, New Mexico.
- CASE 4277: Application of Pan American Petroleum Corporation for two unorthodox gas well locations, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval of two unorthodox gas well locations in Township 26 North, Range 4
 West, Blanco-Mesaverde Gas Pool, Rio Arriba County, New Mexico, as follows:

Jicarilla Apache 102 Well No. 15 located 790 feet from the South line and 1190 feet from the East line of Section 9;

Jicarilla Apache 102 Well No. 16 located 1070 feet from the South line and 1450 feet from the East line of Section 10.

CASE 3455: (Reopened) Continued from the November 5, 1969 Examiner Hearing

In the matter of Case No. 3455 being reopened pursuant to the provisions of Order No. R-2565-B, which order, among other things, established 320-acre spacing units for the West Puerto Chiquito-Mancos Oil Pool, Rio Arriba County, New Mexico, for a period of three years. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 4257: (Continued from the November 19, 1969 Regular Hearing)

Application of Sohio Petroleum 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 San Andres formation in the open-hole interval from 4920 feet to 4995 feet in its Phillips Lea SWD Well No. 4 located in Unit M of Section 31, Township 17 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 4263: (Continued from the November 25, 1969 Examiner Hearing

Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "E" Well No. 3, to be located 590 feet from the South line and 1590 feet from the West line of Section 13, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

CASE 4264: (Continued from the November 25, 1969, Examiner Hearing)

Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "J" Well No. 1, to be located 2390 feet from the South line and 2410 feet from the East line of Section 11, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

- CASE 4278: Application of Anne Burnett Windfohr, dba
 Windfohr Oil Company, for an exception to Order No. R-3221, as
 amended, Eddy County, New Mexico. Applicant, in the abovestyled 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 Gissler E Wells Nos.
 11 and 12, located, respectively, in Units J and I of Section
 23, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy
 County, New Mexico. Applicant seeks authority to dispose
 of salt water produced by said wells in unlined surface pits
 in the vicinity of said wells.
- CASE 4279: Application of Anne Burnett Windfohr, dba Windfohr Oil Company, for an exception to Order No. R-3221, as amended, Eddy 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 Gissler B Well No. 4 located in Unit B of Section 8, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.

CASE 4290:

Application of J. M. Huber Corporation for said water disposal, Lea County, New Mexico.

Applicant, in the above-styled cause, speks authority to Case of produced salt water into the Lower Wolfcamp formation in the perforated interval from 10,358 feet to 10,419 feet in ats Stoltz State Well No. 1 located in Unit M of Section 6, Township 15 South, Range 35 East, Morton-Wolfcamp Pool, Lea County, New Mexico.

- CASE 4281: Application of Continental Oil Company for a dual completion Lea County. New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its SEMU Well No. 21 located in Unit O of Section 19, Township 20 South, Range 38 East. Lea County, New Mexico, in such a manner as to produce oil from an undesignated Blinebry oil pool and gas from an undesignated Drinkard gas pool through parallel strings of tubing.
- CASE 4282: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the East E-K Unit Area by the injection of water from the upper Queen formation through two wells located in Units N and P of Section 22, Township 18 South, Range 34 East, East E-K Queen Pool, Lea County, Few Mexico.
- CASE 42-3. Application of Continental Cil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East E-K Unit Area comprising 400 acres, more or less, of state lands described as the NW/4, E/2 SW/4 and SE,4 of Sattier 22. Township 18 South, Range 34 East, East E-F Queen Pool, Lea County, New Mexico.
- CASE 4284: Application of Continental Oil Company for salt water disposal, Lad, County, New Mexic. Applicant, or the above-styled cause, seeks a thority to dispose of produced salt water in its Springs SWD Wells No. 1 and 2, located in Init F if Section 3 and Unit A of Section 4 respectively, Township 21 South, Range 25 East, Springs-Upner Pennsylvanian Gas Pool, Edder County, New Mexico. Disposal into Well No. 1 would be into the Bone Spring Welform and Upper Pennsylvanian formations in the coenhole interval from 2700 feet to 8350 feet. Disposal into Vell No. 1 would be into the Upper Pennsylvanian formation in the perforateding from 8300 feet to 8400 feet.

CASE 4265: (Readvertised):

Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to dispose of produced salt water into the Yates, San Andres and other formations in the open-hole interval from approximately 4450 feet to 6067 feet in its Midway State Well No. 3 located in Unit J, Section 12, Township 17 South, Range 36 East, Lovington Field, Lea County, New Mexico.

CASE 4285: Application of Southwestern Natural Gas Inc., for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the special rules and regulations governing the North Osudo-Morrow Gas Pool to permit the drilling of a well at an unorthodox gas well location 1980 feet from the South line and 660 feet from the East line of Section 19, Township 20 South, Range 36 East, Lea County, New Mexico.

BEFORE EXAMINER NUTTER

Form C-108 Revised 1-1-65

1900 Wilco Building, Midland, Texas

OIL CONSERVATION COMMISSION A PAPPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

J.M. Hut	er Corpo	ration		190	0 W11	co Bu	llding,	Midla	nd, Texa	8
İ									COUNTY	
Stoltz S	State		11	Mo	rton	romer	Wolfca	mp	Lea	
		M	_	: c h		501	ıth.	55	h	
	UNIT LETTER	M : wa	LL 19 LOCATED	774	EET PROM T	HE	uth Lin	E AND	T PEET	FROM THE
West		6	15-S		15-E					
WCD4	CIAL, SECTION	10,				нмрм.				
NAME OF	STRING	SIZE				то	P OF CEMEN	7	OP DETERMINE	ED BY
SURFACE EASING									sual obs	er-
		13-3/8"	385 1	2'	<u>'5</u>	C1	rculate	d va	tion	
INTERMEDIATE		0 = 40#	h 505 •	1 2		26	001		lculatio	
		8-5/8"	4,525	21	10	30	00,		<u>her well</u>	s in
CORG STRING		31 3 40 99	20 4503		- ^	000			e area.	
YUBING		4-1/2"	10,450					Te	mperatur	e Sur
		2 2 /0#	0 0001					walan+	# Q2nn#	
NAME OF PROPOSED	INJECTION FORMA	C-3/0"	y,000°	TOP	F FORMATIO	ы 14 0— Т (or admi	AGTCIIP	ORMATION	
STATE NAME OF PROPOSED INJECTION FORMATION LONG STRING			30 ST	51		10.4	70'			
IS INJECTION THRO	DOWEL HOT	GOZ ANNULUS?	PERFORATIO	NS OR OPEN HO	EP PROPOS	SED INTERV	LL(S) OF INJEC	TION	<u> </u>	
	Tubing		Perfor	rations	1	0.358	· - 10.	419*		
IS THIS A NEW WEL	LL ORILLED FOR	IF ANSWER IS	NO, FOR WHAT PURP	OSE WAS WELL	ORIGINALLY	DRILLED?		HAS WELL EV	ER BEEN PERFORA	TED IN ANY
	No	Oil we	11 - produ	uced un	il Ja	nuary			No	
4										
10.358-0	691, 10,3	73-76', 1	0.414-191							
DEPTH OF SOTTOM	OF DEEPEST		DEPTH OF BOTTOM OIL OR GAS ZONE II		l				ER EA	
Approxim	mately 37	5		None Unknown						
INTECTION AOFINE	1	1	1		PRE	ESSURET		1		
STOCK, IRRIGATION	A DEGREE AS TO B , OR OTHER GENERA	E UNFIT FOR DOMES AL USE —	TIC.		1 SAL				Yes	
HAME AND ADDRESS	OF SURFACE OWN	ER (OR LESSEE, IF S	STATE OR FEDERAL L						100	
State lar	nd leased	to Mary	H. Stansel	il. Lov	ngton	. New	Mexico	88260	. GR 283	
LIST NAMES AND A	ODRESSES OF ALL	OPERATORS WITHIN	ONE-HALF (}) MILE	OF THIS INJECT	ON WELL				,	
Gulf Oi	l Corpora	tion. Box	1150. Mi	dland.	l'exas	79701				
CASING AND TUBING DATA NAME OF STRING 13-3/8" 385' 275										
Humble (011 & Ref	ining Com	pany, Box	1600,	Midlan	d, Te	xas 797	Û1		
			<u>-</u>							
Charles	B. Read,	Box 1822	, Roswell	, New M	exico	88201				
									70703	
Union O	11 Compan	y of Cali	fornia, U	nion 01	l Buil	ding,	Midlan	d, Tex	as 79701	•
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SENT TO EACH OF	THE FOLLOWING	1							es	
ARE THE FOLLOWIN	G ITEMS ATTACHED			ELEC	RICAL LOG	100			C SKETCH OF WEI	
THIS APPLICATION	SEE RULE 701-B)	J		 		Yes	l 1		es	
	1 ha-sh						f mar lessants			
ZI#	Inereby ce	citing that the int	OTHERTOR BOOVE IS	s true and Co	mbrete to t	me best o	ı my knowle	nka sua bel	iei.	
No	of Anne	La	Distri	ct Prod	uction	Supt	•	Octobe	r 27, 19	169
T12 2 2 T	Mandan	~~							(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 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.

*At a later date, it may be necessary to inject under pressure but do not expect pressure will over exceed 1000 psi.

MORTON WOLFCAMP FIELD

Production History

- J.M. Huber Corporation Stoltz State No. 1 (proposed SWDW),
 M 6-15S-35E. This well produced a total of 22,594
 barrels oil, and was abandoned in January, 1969.
 Last production just prior to abandonment was 3 BOPD
 and 3 BWPD.
- Union Oil Company of California State 7 Com No. 1 (South offset to proposed SWDW), D 7-15S-35E. Cumulative production through August , 1969, is 127,971 barrels oil with average for June, July, and August of 5.4 BOPD and 1.2 BWPD.
- Gulf Oil Corporation Featherstone Federal No. 1 (Southwest offset to proposed SWDW), A 12-15S-34E. Cumulative production is 26,856 barrels oil with last reported production in December, 1968, when it produced 100 barrels oil and no water.
- Union Oil Company of California Gulf Federal No. 1, H 12-15S-34E. Cumulative production through August, 1969 is 132,079 barrels oil with average for June, July, and August of 9.4 BOPD and 6.7 BWPD.
- Cabot Corporation State Q No. 1, L 7-15S-35E. Cumulative production through August, 1969, is 21,227 barrels oil with average for June, July, and August of 7.5 BOPD and 1.5 BWPD.

Above figures taken from New Mexico Oil and Gas Engineering Committee.

	BEFORE EXAMINER NUTTER
	OIL CONSERVATION COMMENTED IN
	APO EXHIBIT NO. 2
i	CASE NO. 4-7-80
	تها بالكانا المتدين ووسيديا والمستشهر والاستقادة والأوار ويميا والمال والبروان والمناور

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C E. Hilburn	,,,,	Ste		Ste		31-	pro	51 % 7-1489 8 11-18 11-18	("High Plains" : State	ning ` & D/A & 13 65 State	Pie
Union 6 · 20 · 72	Superior 5 · 1 · 73 0383(6)	GM Cone 6 · 5 · 72 8 · 4 · 72	76 Recreen & Phillips (M) 1 Shell Amerodate 15 Ca	Amerada L. 11:11:13:14:14:14:14:14:14:14:14:14:14:14:14:14:			Rolph Lewe 10 - 15 - 73 × 2659 101 M	Amerada § 1-24-79 § 1-2392 1-1029 Warran Amer C. R. Lowe Est. Fenore - Sf. 1010-810 OM 8 - 8 -	Union 6 · 16 · 70 k · 70 133 ²⁵ aware Apache 8 · 17 · 79 K · 35 72 1120	1129 1129 Amerada Bela 16 16 18	(Tejida Pocifici Permo (%) Fernibed; (262 2 9697	•
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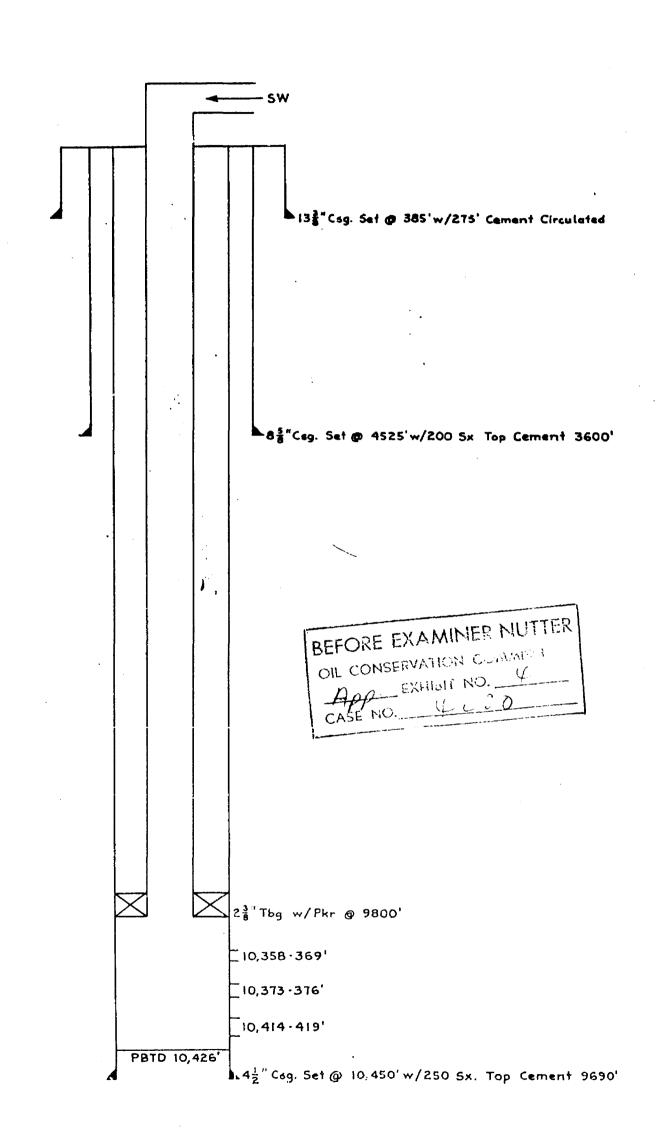
J. M. Huber Corporation

Stoltz·State Nº 1

554' FS & W Lines

Sec. 6·15S·35E

Lea Co., New Mexico



Hondo Oil & Gas Company
Box 1978 Roswell, New Mexico November 7, 1969

Huber #1 Stoltz State Lot 7, SE4SW4 Sec. 6-15S-35E Lea County, New Mexico (Our HD-NM-3442)

J. M. Huber Corporation 1900 Wilco Building Midland, Texas 79701

Attention: Mr. Ron Holcomb

Gentlemen:

Hondo Oil & Gas Company does not wish to take over the subject well for further testing or deepening and hereby furnishes you its permission to convert the well for salt water disposal use. Since the subject well was the only well on the lease and there is no longer any overriding royalty income from it, we are, naturally, concerned about whether the lease should be maintained in the future by rental payments.

Please check within your own organization and advise whether there is any desire to purchase the entire leasehold estate, without depth limitation, as to the proration unit around the subject well.

E. COMERRVATIO

Yours very truly,

HONDO OIL & GAS COMPANY

Jack Blard District Landman

JB/dlm

cc: Mr. Gabe Moore - Dallas Office

J.M. Huber Corporation

1900 Wilco Building Midland, Texas 79701

OIL AND GAS

October 27, 1969

TELEPHONE MUTUAL 2-3794

Offset Operators (mailing list attached)

Re: J.M. Huber Corporation
Stoltz State No. 1
554' FS&W Lines
Section 6, T-15-S, R-35-E
Lea County, New Mexico

Gentlemen:

J.M. Huber Corporation is making application to the New Mexico Oil Conservation Commission for salt water disposal into the captioned well. We are proposing to inject produced salt water from the area into the Morton Wolfcamp pay through perforated interval 10,358'-10,419'. Attached please find Form C-108, diagrametic sketch of proposed well, and Waiver of Objection. If you have no objection to this application, would you please sign and return two copies of the waiver to this address retaining one copy for your file.

Your cooperation will be appreciated.

Very truly yours,

J.M. HUBER CORPORATION

Floyd L. Meade

District Production Supt.

FLM:mt Attachments

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

Gulf Oil Corporation P.O. Box 1150 Midland, Texas 79701

Union Oil Company of California Union Oil Building Midland, Texas 79701

Charles B. Read 604 Security National Bank Building P.O. Box 1822 Roswell, New Mexico 88201

Humble Oil & Refining Company P.O. Box 1600 Midland, Texas 79701

WAIVER OF OBJECTION

Humble Oil & Refining Company has been notified that J.M. nuber Corporation intends to inject salt water into perforated intervals 10,358' to 10,419' through tubing in their Stoltz State No. 1 well located 554' from south and west lines Section 6, T-15-S, R-35-E, Morton Wolfcamp Field, Lea County, New Mexico. As offset Operator, we waive objection to J.M. Huber Corporation injecting produced salt water as indicated above.

HIMBLE OIL & REFINING COMPANY

Solution, Oper. MANAGE

Date NOVEMBER 4, 1969

WAIVER OF OBJECTION

that J.A. huber Corporation intends to inject salt water into perforated intervals 10,358 to 10,419 through tubing in their Stoltz State No. 1 well located 554 from south and west lines Section 6, T-15-S, R-35-E, Morton Wolfeamp Field, Lea County, New Mexico. As offset Operator, we waive objection to J.M. Huber Corporation injecting produced salt water as indicated above.

GULF OIL CORPORATION

DISTRICT PRODUCTION MANAGER

ate October 31, 1969

WAIVER OF OBJECTION

Union Oil Company of California has been notified that J.M. haber Corporation intends to inject salt water into perforated intervals 10,358' to 10,419' through tubing in their Stoltz State No. 1 well located 554' from south and west lines Section 6, T-15-S, R-35-E, Morton Wolfcamp Field, Lea County, New Mexico. As offset Operator, we waive objection to J.M. Auber Corporation injecting proqueed salt water as Indicated above.

UNION OID COMPANY OF CALIFORNIA

G. W. Ocombes, District Operations Manager November 14, 1969



TRETOLITE DIVISION 309 Merabeli Avenue / Seint Leuis, Microsoft 43119

389 Mershell Avenue / Saint Louis, Missouri 63118 [314] WO 1-3500/TWX 810-760-1660/Telex 44-2417 Place Reply to 201 Wall St. Wall Towers East Bidg. Suite 501 Midland, Texas 79704

November 7, 1969

Mr. Floyd L. Meade J. M. Huber Corporation 1900 Wilco Building Midland, Texas 79701

Dear Mr. Meade:

Attached is a water analysis report and a scaling tendency calculation from your Stoltz Federal Well No. 1.

Based on this Stability Index Calculation, this water has severe scaling tendencies at both $60^{\circ}F$. and $100^{\circ}F$.

For scale prevention in this water, I recommend Tretolite "SF" Scale Preventive OS-2520 be injected continuously at the water outlet of the heater treater at a rate of 20 ppm (1 quart to 300 barrels).

Tretolite "SP" OS-2520 is priced at \$2.45 per gallon delivered to your lease in single-drum quantities, and \$2.30 per gallon in ten-drum quantities.

Thank you for the opportunity of submitting this recommendation. We will be happy to initiate it at your request.

Yours very truly,

TRETOLITE DIVISION

C. Webb Farish 9.8
Central Region Manager

CWF:jl

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
CASE MC.
CASE MC.

369 Marahall Avanus / Saint Levis, Misseuri 63119 (314) WO 1-3508/TWX 810-760-1660/Tolax 44-2417

WATER ANALYSIS REPORT

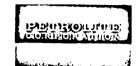
COMPANY_	J.M. Nuber Corp. Stoltz Fed. Well #1	ADDRESS Nid	Land, Texas 6-23-69	DATE:	7-12-69 3432
300kcc	Analysis		Mg/L	NO *Meq/L	
1. 2. 3.	PH 7.7 H ₂ S (Qualitative) Pos. Specific Gravity 1.016	20	.090		
4. 5. 6. 7. 8. 9.	Dissolved Solids Suspended Solids Phenol Alkalinity (CaCO ₃) M. O. Alkalinity (CaCO ₃) Bicarbonate (HCO ₃) Chlorides (Cl) Sulfates (SO ₄)			19 396 	—— HCO3 —— CI —— SO4
11. 12. 13. 14. 15.	Calcium (Ca) Magnesium (Mg) Total Hardness (CaCO ₃) Total Iron (Fe) Barium (Qualitative)	Co	+20 +40 +12.	78	Ca Mg
15. 16.		2,8	i j		

PROBABLE MINERAL COMPOSITION

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ca (HCO ₈) ₂ Ca SO ₄	81.04 68.07		1,540
No CI	Ca SO4	68.07		
315 396			 35	-1,020
Saturation Values Distilled Water 20°C	Ca Cl ₂	55.50		
Ca CO ₃ 13 Mg/L	Mg (HCO ₈) ₂	73.17		
Ca \$O ₄ • 2H ₂ O 2,090 Mg/L Mg CO ₈ 103 Mg/L	Mg SO4	60.19		-243
,	Mg Cl ₂	47.62		- 3,860
	Na HCO ₈	84.00		
	Na ₂ \$O ₄	71.03		
	Na Ci	58.46	-315	-18,430-
MARKS (1) Nr. J.N. Huber Vauglm Bldg.	Hidland, Texas			
- CO: Parmer - Worsham - file	i			

Respectfully submitted TRETOLITE COMPANY

Ray Shuffner



TRETOLITE DIVISION 369 Marshall Avenue / Saint Louis, Missouri 83118 (314) WO 1-3500/TWX 910-780-1880/Telex 44-2417

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling Tendency

Address Sample S. I. = where S. p p p p R	Midland, Texas Stoltz Fed. Well #1 pH - pCa - pAlk - K I. = stability index H = pH as measured on from the constant of the	calcium concentration total alkalinity on temperature and salt content 1.40 pAlk = 1.71 D K VALUE
Sample S. I. = where S. p p p p CALCULATION	Stoltz Fed. Well #1 pH - pCa - pAlk - K I. = stability index H = pH as measured on fraction of the constant of the constant, depends upon the constant, depends upon the constant of the con	esh sample calcium concentration total alkalinity on temperature and salt content 1.40 pAlk = 1.71 D K VALUE
S. I. = where S. p p p K CALCULATION	I. = stability index H = pH as measured on fr Ca = negative logarithm of Alk = negative logarithm of = constant, depends upo H = 7.7 pCa = N OF IONIC STRENGTH ANI 7,245) X (2.2 X 10 ⁻⁵) =	esh sample calcium concentration total alkalinity on temperature and salt content 1.40 pAlk = 1.71 D K VALUE
where S. p. p. p. K p ALCULATION	I. = stability index H = pH as measured on from the case of the logarithm of the constant, depends upon the constant, depends upon the constant of the constan	calcium concentration total alkalinity on temperature and salt content 1.40 pAlk = 1.71 D K VALUE
p p p K P ALCULATIO	H = pH as measured on fr Ca = negative logarithm of Alk = negative logarithm of = constant, depends upo H = 7.7 pCa = N OF IONIC STRENGTH ANI 7,245) X (2.2 X 10 ⁻⁵) =	calcium concentration total alkalinity on temperature and salt content 1.40 pAlk = 1.71 D K VALUE
ALCULATIO	N OF IONIC STRENGTH AND $7,245$ \times (2.2 \times 10 ⁻⁵) =	O K VALUE
	7,245 X (2.2 X 10 ⁻⁵) =	
Na (· · · · · · · · · · · · · · · · · · ·	0.159
Ca ($_{1,560}$) X (5.0 X 10 ⁻⁵) =	0,078
Mg (1,040) X (8.2 X 10 ⁻⁵) =	= 0.085
C1 (14,070) X (1.4 X 10 ⁻⁵) =	0,197
HCO ₃ (1,150) X (0.8 X 10 ⁻⁵) =	
• • • • • • • • • • • • • • • • • • • •	3,030) X (2.1 X 10 ⁻⁵) =	•
-	TOTAL IONIC STRENGTH =	_ 0.592
	.35 @	
K =2	.92 @100	°F.
		1.71) - (<u>3.35</u>) or <u>+1.24</u>
SI at (<u>100</u>)	O = (7.7) - (1.40) - (1.71) - (_2.92) or+1.67
SI = O or w	rater is relatively stable at_	o _F .
	Severe scaling tendencys at b	



TRETOLITE DIVISION 369 Marshall Avenue / Saint Louis, Missauri 63110 (314) WO 1-3500/TWX 910-760-1660/Talex 44-2417

STABILITY INDEX CALCULATIONS

Tendency for $\frac{\text{CaSO}_4 - 2 \text{ H}_2\text{O}}{\text{(Gypsum) Scale}}$

Stiff-Davis Method

Company	J.M. Huber Corp.	Address	#3432	
Source	Stoltz Fed. Well #1		_Date	7-12-69
$S = S_T \times F$	$_1 \times F_2 \times F_3$			
$egin{array}{c} \mathbf{S}_{\mathbf{T}} \\ \mathbf{F}_{1} \end{array}$	 Solubility under Given Condition Solubility in Distilled water at Common ion factor, or the influence sulfate ions (meq. /1) Magnesium ion factor (meq. /1) Sodium factor (mg/1) 	the temperature uence of excess	e T (mg, s calciur	'1 CaSO ₄) n or
Factors:				
	Temperature 60 0	$F \rightarrow S_T = \underline{\hspace{1cm}}$	2,000	
	Temperature 100 °	F>S _m =	2,100	
$\mathbf{F}_1 = 0.85$	Temperature $\frac{100}{F_2}$ = $\frac{1.4}{1.4}$	F ₃ =	2.3	
$S = S_{T} = \frac{2.000}{2.100}$	X F ₁ 0.85X F ₂	1•4 X	F ₃	2.3
_	S = 5,475 ppm Cas	SO ₄ at60	o _F	
	S = 5,748 ppm Cas	SO ₄ at	°F	
Remarks:				
and the second s				



WATER TREATING CHEMICALS & EQUIPMENT

WATER NALYSIS REPORT

J. M. Huber Corporation

WATER TREATING CHEMICALS & EQUIPMENT		LocationS1	toltz Stat	te #1		
BOX 3627 ODESSA, TEXAS Phone FE 7-4681			Mo	rton Pool		
					ed 12/27/67	
ANALYSIS NO.						
SOURCE OF SAMPLE						
		PPM	PPM		РРМ	PPM
ALKALINITY, CaCO.						
Total		500			,	
Phenolphthalein		None				
MORAL IVA DONIEGO GAGO		44 500				
TOTAL HARDNESS, CaCQ		14,500				
IONS						
Calcium	(Ca)					
Magnesium	(Mg)					
Chloride	(Cl)	± 55,000				
Sulfate	(SO ₄)	1020				
Iron	(Fe)	12.2				
Sodium	(Na)					
Silica	(SiO ₂)				,	
CHROMINE						
PHOSPHATE						
Poly	(PO ₄)					
Ortho	(PO ₄)					
SODIUM SULFITE	(SO ₃)					· · · · · · · · · · · · · · · · · · ·
CAUSTICITY	(OH)					
	(011)					
TURBIDITY CONDUCTIVITY (Mmhos)		115,000				
Specific Gravity		1.074				
pH		6.6				
Remarks:						
-						
				0		
	······································		Signad	XID	zell.	

KELLAHIN AND FOX
ATTORNEYS AT LAW

54'C EAST SAN FRANCISCO STREET
POST OFFICE BOX 1769

SANTA FE, NEW MEXICO 87501

MOV 3.11 MAG

TELEPHONE 982-4315 AREA CODE 505

ROBERT E. FOX

November 18, 1969

Mr. George Hatch, Attorney New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501 Case 4280

Dear George:

Enclosed is a signed, carbon copy of the application of J. M. Huber for salt water disposal in the Morton Wolfcamp Pool, which I discussed with you by phone today.

It is requested that this be set for the next available hearing, which I understand will be on December 17.

Yours very truly,

aon

Jason W. Kellahin

jwk;jh

Encl. as stated.

cc: Floyd L. Meade

Date 12-5-69

Form C-108 Revised 1-1-65 (1) 20 1000

NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR				ADDRESS		an 4280
	ber Corpo	ration		1900 W	ilco Buildin	g, Midland, Texas
JEOLES LOCATION	State		WELL NO.	Norte	n Lower Wolf	camp Lea
LOCATION	UNIT LETTER	M	ELL IS LOCATED	54 FEET F	ROM THE South	LINE AND 554 FEET FROM 1
west	LINE, SECTION	6 70	WNSHIP 15-S	RANGE 35-2	NMPM.	
				G AND TUBING DA		
)F STRING	SIZE	SETTING DEPTH	SACKS CEME	NT TOP OF CE	
SURFACE CASING		13-3/8*	3851	275	Circula	·
NTERMEDIATE		8-5/8*	4,5251	200	3600*	Calculation & other wells in
LONG STRING		4-1/2*	10,450	258	96901	the area. Temperature Su
TUBING		2+3/6*	9,600		DEPTH OF TUBING PACKER RMC-1 OF 69	uivalent 8 9800°
NAME OF PROPOS	LOWER WOL	ATION		TOP OF FOR	-	BOTTOM OF FORMATION
S INJECTION THE	ROUGH TUBING, CASIN	•	PERFORATION		PROPOSED INTERVAL(S) OF I	
	Tubing			ations	10,358' - 1	
S THIS A NEW W >1SPOSAL?	ELL DRILLED FOR		ino, for what purp		January, 196	HAS WELL EVER BEEN PERFORATED IN ZONE OWNER THAN THE PROPOSED INJECTION ZONE?
	erforated interva		EMENT USED TO SEAL	OFF OR SQUEEZE EAC	н	•
		<u>_</u>				
FRESH WATER ZO	M OF DEEPEST NE IN THIS AREA SALELY 37		DEPTH OF BOTTOM OIL OR GAS ZONE IN	OF VEXT HIGHER I THIS AREA	DEPTH OF OIL OR GA	TOP OF NEXT LOWER S ZONE IN THIS AREA INKROWN
FRESH WATER 20 Approxi	me in this area 37	500	OPEN OR CLO	OF NEXT HIGHER I THIS AREA A ONE DISED TYPE SYSTEM	IS INJECTION TO BE BY	TOP OF NEXT LOWER S ZONE IN THIS AREA NKNOWN GRAVITY OR LIBLY NONE INITIAL!
ATTICIPATED DATE INJECTION VOLUME (BBLS.)	ME IN THIS AREA 37	MAXIMUM 500	OPEN OR CLC	OSED TYPE SYSTEM	IS INJECTION TO BE BY OPESSURE?	GRAVITY OR APPROX. PRESSURE (PSI)
FRESH WATER 20 ANTICIPANTED DAI NIECTION VOLUM (BBLS.) ANSWER YES OF SERALIZED TO SU STOCK, IRRIGATI	ME IN THIS AREA THE STATE OF	MAXIMUM OUT CLOWING WATERS AF BE UNFIT FOR DOMES RAL USE HER (OR LESSEE, IF	OPEN OR CLC CA RE MIN- BTIC. WAYE	OSED TYPE SYSTEM OSEC R 10 BE DISPOSED OF YES AND)	IS INJECTION TO BE BY OF PRESSURE UPAVILY IN1	chavity or Approx. pressure (psi) tially None Initiall po- are water analyses attached?
FRESH WATER 20 ANTICIPAN TO LIN INJECTION TO LIN INSWER YES OR ENALIZED TO SU STOCK, IRRIGATI VAME AND ADDRE STOCK TRIGATI VAME AND ADDRE	NE IN THIS AREA THE STATE OF STATE NO WHETHER THE FO CH A DEGREE AS TO E ON, OR OTHER GENER SS OF SURFACE OWN AND LEWIS CO ADDRESSES OF ALL	MAYIMUM 100 LLOWING WATERS AS BE UNFIT FOR DOMES LET (OR LESSEE, IF 100) OPERATORS WITHIN	OPEN OR CLO C1 RE MIN- TIC, WATE STATE OR FEDERAL U Si . Utalise ONE-HALF () MILE C	SED TYPE SYSTEM OSEC TO BE DISPOSED OF YOUR AND) L1, LOVING	PRESSURE IN TO BE BY OF BY AND	CRAVITY OR APPROX. PRESSURE (PSI) LIBLLY NONE INITIAL OF ARE WATER ANALYSES ATTACHED? Yes
ANSWER YES OR THE AND ADDRESS OF THE AND ADDRESS OF THE ADDRESS OF	NE IN THIS AREA SELETY 37 INC. MINIMUM NO WHETHER THE FO ON, OR OTHER GENER SS OF SURFACE OWN AND LENSES ADDRESSES OF ALL L COPPORA	MAYIMUM 200 ILLOWING WATERS AS BE UNFIT FOR DOMES ILLO TO TAITY OPERATORS WITHIN LETON, DOX	open or clo C1 RE MIN- STATE OR FEDERAL U Si. Statise ONE-HALF (3) MILE C	SED TYPE SYSTEM OBEC YES AND: L1, LOVING OF THIS INJECTION WE LLUTING TEXAS	IS INJECTION TO BE BY OF BY SURESURE IN DISP. INATURAL WATER IN DISP. Yes Lon, New Hexi 25 79701	tially None Initiall None ARE WATER ANALYSES ATTACHED? Yes CO 88260, GR 283
FRESH WATER 20 AND POXISION CONTROL OF THE CONTROL	ME IN THIS AREA SEELEN 37 IN MINIMUM NO WHETHER THE FOO ON, OR OTHER GENER SS OF SURFACE OWN AND LEASES ADDRESSES OF ALL COPPORA OIL & Ref	MAXIMUM 1000 CLOWING WATERS ARE BE UNFIT FOR COMES TAL USE IF (OR LESSEE, IF I TO MARY OPERATORS WITHIN ATION, BOX INING COM	open or clo C1 RE MIN- STATE OR FEDERAL LA H. Stalisel ONE-HALF (1) MILE C (1) SITILY, SOX	SED TYPE SYSTEM OBEG IN 10 BE DISPOSED OF YEB AND: LL, LOVING OF THIS INJECTION WE LEHIC, TEXA 1600, Mid.	is injection to se by opressure? In in injection to se by or are in dispersion. Yes ton, Hew Hexitas 79701	tially None Initiall None ARE WATER ANALYSES ATTACHED? Yes CO 88260, GR 283
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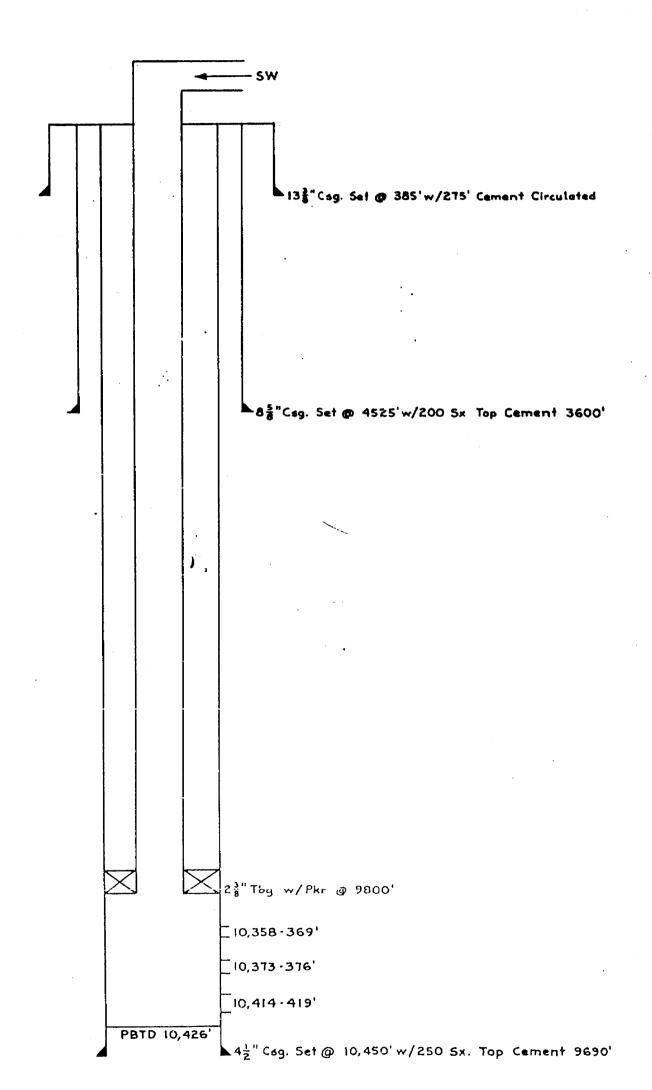
NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well.

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 Surva 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,

*Att to infer wave pressure with averagent to inject ander pressure but do not expect pressure with averagent 1000 ont.

- 15 "HobFlore"	LL-11444	(6.16.74) X 4193	۱ل	an sin e e gode salesia	SWANI ECUIDO - 16	1
monters 'dion') G 'dion' G 's filleleware. : sess Acoche ; ey High Proinstant	Caymon Corp	112 85 8 Lewe 5 - 4 15 10 K-181	ST - HA UNIT	Ameriada १०१६ : १३ ४०	Union 16- 5hell 1: 20:72 12:15 : 69 K: 28:66 K: H. H. H.	15 June 15 Proces
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rtinAcceguy(s)	Bill Groham elal (2) (s) Miary L. Roddy (2) (s)	7.0. Reed@Irlez U.S. elA Bill Graffam, elal /2 (S) Fed Mary L. Roddy //2 (S) Fed	State MaryH, Stanse/	State	State IH III Coninedit Canined	Mary H. Stane
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•	Mary hell thrusten	H + 20 + 694 (0.76 49)	# # ## ##	12 - 12 - 12		

J. M. Huber Corporation Stoltz · State Nº 1 554' FS & W Lines Sec. 6 . 15 5 . 35 E Lea Co., New Mexico



Chine # 280 F. M. 10:10-69

365 Marshall Avenue / Saint Crass, Missouri, 03110 (314) WO 1-3503/TWX 010-7004300/Tene 44-2417

Contidua agrantivation Olad

COMPANY J.M. Luber	e Corpo	ADDRESS Midl	and, Texas	DATE:	7-12-69
OURCE Stoltz Fed	l. Well #1	DATE SAMPLED	6.23.400	ANALYSIS — NO. ——	3432
Analysis			Mg/L	•Meq/L	
1. PH 2. H ₂ S (Qualitative 3. Specific Gravity 4. Dissolved Solids 5. Suspended Solids 6. Phenol Alkalinity 7. M. O. Alkalinity 8. Bicarbonate (HC) 9. Chlorides (Cl) 10. Sulfates (SO ₄) 11. Calaium (Ca) 12. Magnesium (Mg 13. Total Hardness (14. Total Iron (Fe) 15. Barium (Qualitat 16. *Milli equivalents per	1.016 (CaCO ₃) (CaCO ₃) (CaCO ₃) (CaCO ₁) tive)	20.0 HCO,	→ 61 → 35 → 48 → 20 → 12 → 12	53 73	—— HCO, —— CI —— SO, —— Ca —— Mg
73 Ca <	HCO ₃ 19	Compound	Equi v , Wt.	X Meq/L	= Mg/L 1,540
85 Mg	→ so, 63 → CI 395	Ca (HCO ₃) ₂ Ca SO ₄	61.04 88.07	<u> </u>	4 ₀ 020
315 No				*	

REMARKS (2) May 5,11, Madder as Mangian Midga Middlinia, 2000 Con Markor as Marchine as Mile

Mg Clg

Na HCO₃

Na₂ \$0₄

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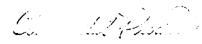
54.30

71.03

3,330

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K.23 54 11/68 8F



OF YEXAS

WATER TREADING CHEMICALS & EQUIPMENT BOX 3627

ODESSA, TEXAS

Client	Ü, ii.	Huber	Corporation	
Location	<u> </u>	<u>Stabe /</u>	#1	-

WATER PALLYSIS REPORT

Morton Pool Phone FE 74001 12/25/60 Date Received 12/27/67 ANALYSIS NO. SOURCE OF SAMPLE -PPM PPM ALKALINITY, CaCO3 Total 500 Phenolphthalein None TOTAL HARDNESS, CaCO 14,500 TONS (Ca) Calcium (Mg) Magnesium (Cl) Chloride £ 55,000 (SO₄) 1020 Sulfate (Fe) Iron 12.2 (Na) Sodium (SiO₂) Silica CHROMINE PHOSPHATE Poly (PO4) Ortho (PO₄) SODIUM SULFITE (SO₃) CAUSTICITY (OII) TURBIDITY 115,000 CONDUCTIVITY (Mmhos)

Simus: Care and

J. M. Huber Corporation 1900 Wileo Building

1900 Wilco Building Midland, Texas 79701

OIL AND GAS

October 27, 1969

TELEPHONE

Offset Operators (mailing list attached)

Re: J.M. Ruber Corporation Stoltz State No. 1 994' FS&W Lines Section 0, T-15-S, R-35-E Lea County, New Mexico

Gentlemen:

J.M. Muser Corporation is making application to the New Mexico Oil Conservation Commission for salt water disposal into the captioned well. We are proposing to inject produced salt water from the area into the Morton Wolfcamp pay through perforated interval 10,356'-10,419'. Attached please find Form C-108, diagrametic sketch of proposed well, and Waiver of Objection. If you have no objection to this application, would you please sign and return two copies of the waiver to this address retaining one copy for your file.

Your cooperation will be appreciated.

Very truly yours,

J.M. HUBER CORPORATION

Μλογά Ι. Ασεασ

District Production Supt.

Philint Attachments

co: New Maxico Oir Conservation Commission P.O. Box 1980 nobs, New Mexico 00240

Car -12,80

Gulf Oil Corporation P.O. Box 1150 Midland, Texas 79701

Union Oil Company of California Union Oil building Nidland, Texas 79701

Charles B. Read 604 Security National Bank Building P.O. Box 1822 Roswell, New Mexico 88201

Numble Oil & Refining Company P.O. Box 1000 Midland, Texas 79701

Cha 4380

12,

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:

CASE No. Order No. R-38 APPLICATION OF J. M. HUBER CORPORATION FOR SALT WATER DISPOSAL, LEA COUNTY, NEW ORDER OF THE COMMISSION BY THE COMMISSION: 9:30 This cause came on for hearing at β a.m. on December 17, 1969, at Santa Fe, New Mexico, before Examiner ____ Daniel S. Nutter day of <u>Soo</u>, 1969, the Commission, a NOW, on this___ 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, J. M. Huber Corporation , is the owner and operator of the _ Stoltz State Well No. 1 located in Unit M of Section 6 , Township 15 South , Range 35 East, NMPM, Morton-Wolfcamp Pool Lea County, New Mexico. (3) That the applicant proposes to utilize said well to dispose of produced salt water into the ___Lower Wolfcamp formation, with injection into the _____perforated ____interval from approximately 10,358 feet to 10,419 feet. (4) That the injection should be accomplished through

23/8_inch plastic-lined tubing installed in a packer set at

approximately 9800 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; and

treated prior to injection to prevent casing corrosion and coupon corrosion tests should be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

(under)

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 left open at the surface in order to determine leakage in the casing, tubing, or packer,

tinuously treated prior to injection to prevent casing corrosion; that coupon corrosion tests shall be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission;

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

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